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Joint CIA-DIA Working Group Study:

Dollar Valuation of Soviet Expenditures on Ground Troops

1962-66

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FOREWORD

This ad hoc report is the product of a joint CIA-DIA Working Group research effort to re-evaluate the estimates of expenditures for the Soviet Ground Troops that appear in the National Intelligence Projections for Planning, Soviet Military Forces through mid-1974, 31 March 1966. (TOP SECRET, RESTRICTED DATA, LIMITED DISTRIBUTION). The research effort underlying the report was undertaken at the request of the Office of the Assistant Secretary of Defense (Systems Analysis), and was benefited by periodic assistance and guidance received from personnel of that Office.

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Summary and Conclusions

This study presents the results of a re-examination of the costing analysis that underlies the expenditure implications of the Soviet Ground Troops. The study reflects both a careful review of all available information on prices and other costing inputs and a re-evaluation of the methodologies employed.

In the aggregate, the expenditure implications of Soviet Ground Troops changed only slightly as a result of the re-examination, although significant changes were made in specific expenditure accounts. Revisions in costing resulted in expenditure implications of $9.2 billion* for 1965 for the Ground Troops force structure in NIPP-66 (High), which is only about two percent less than the comparable previous figure.

This relatively unchanged total obscures some significant -- but offsetting -- changes in the expenditure accounts for procurement and operation and maintenance. The new level of procurement expenditures derived for this study is approximately ten percent lower than the previous figure. On the other hand, the new level of expenditures for operation and maintenance of the Soviet Ground Troops is about eight percent higher than the previous level.

A major conclusion reached during the course of this study concerns the need to adjust US Army expenditure data to achieve conceptual comparability with the Soviet data. Without such adjustment, US expenditures -- on a per man basis -- appear to be about 45 percent higher than Soviet expenditures. On the basis of preliminary adjustments to the US expenditure accounts -- based in large part upon consultation with personnel from OSD(SA) -- it now appears that total US expenditures per man are only about 25 percent higher than the comparable Soviet figure.

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* The expenditure data in this report are presented in equivalent US dollar terms to provide a basis for comparison with counterpart US expenditures. As such, they do not reflect the relative costs of the various programs and activities as they would appear in ruble terms to Soviet military planners.

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I. Introduction

In a letter dated 29 June 1966 from Major General Robert Taylor, 3rd, USAF, Assistant Director for Intelligence Production, DIA, to Dr. R.J. Smith, Deputy Director for Intelligence, CIA, the following quotation from OSD(SA)'s original request was included to establish guidelines for the joint CIA-DIA research effort on expenditures for the Ground Troops Element of the Soviet Theater Forces:

> "...dollar estimates of the annual amount spent by the USSR over the last five to ten years, in US prices, for ground forces equipment, ammunition and missiles. The exact definition to be used should be the US Army's PEMA category. A high and low figure, as well as a 'most probable', should be provided for each year, and the assumed Soviet ground force manpower (point estimate) associated with these estimates should be supplied. We would also like year-by-year estimates, again in US prices, of total ground forces operation and maintenance (O&M) expenditures. In this respect you should be guided by the US OMA category....would appreciate it if your response could cover the exact methodology on which these estimates are based."

These initial terms of reference were subsequently modified and clarified at organizational and planning meetings held during August-October 1966, that were attended by CIA, DIA and OSD(SA) representatives. It was agreed at these meetings that: 1) The Ground Troops force structure as presented in NIPP-66 would provide the physical base -- order of battle (O/B) and tables of equipment (T/E) -- for the costing exercise. The one minor exception was the decision to exclude Naval Infantry Brigades from the NIPP-66 O/B for purposes of the study so that the results could more easily be compared with available data for the US Army. In settling on NIPP-66 as the physical base, the requirement for a "most probable" estimate also was dropped. 2) The study would cover the years 1962-66. 3) The original restriction to present the Soviet expenditure data in terms of the US PEMA and OMA accounting framework was relaxed. It was agreed that it would be easier for OSD(SA) personnel to adjust the US data for comparison purposes, and that the time of intelligence personnel would be spent on the substantive research aspects of the problem*.

A precise understanding of the definition of the Ground Troops Element is essential at the outset to insure a proper interpretation of the re-evaluated expenditure estimates presented in this report. The Ground Troops Element of the Soviet Theater Forces is defined as comprising ground combat forces, plus their concomitant command, support and service elements. These major force components are composed of organizational

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* See Part III, page 8 and Appendix C, page C-1 for a discussion of comparability problems.

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units operationally subordinate to the Military Districts and Groups of Forces (for troops stationed outside of the USSR) commands, and Airborne Divisions which report directly to a Ministry of Defense command echelon.

Excluded from this definition are all organizational units of central subordination that provide general support for the Ministry of Defense. The centrally subordinated Construction Troops are thus excluded, while Construction Battalions, which are incorporated into the tables of organization (T/O's) of Combined Arms Armies and Tank Armies, are included. General support units provide support throughout the military establishment rather than to specific combat arms. The Soviet Military District or Group of Forces is the Soviet territorial/administrative organization through which the Ministry of Defense exercises control over the armed forces. These command echelons are quite similar in concept to Army Areas in the zone of the interior of the US.

Part II of this report presents the results of the expenditure reevaluation of the NIPP-66 Ground Troops force structure for 1962-66. This section of the report is supported by two appendices. Appendix A presents the detailed statistical data that underlie the summary information presented in Part II, and Appendix B gives detailed expenditure account definitions and the methodologies used for the study.

Part III presents the results of a first-cut attempt to provide a meaningful comparison of the Soviet data presented in Part II with available data for the US Army. This section is supported by Appendix C which provides an explanation of the adjustment made to the US data to achieve as much comparability as possible with the Soviet data.

II. Dollar Valuation of Estimated Expenditures for Soviet Ground Troops, 1962-66*

The force structure costing analysis conducted for this study was a joint CIA-DIA Working Group effort in which the relevant data -- prices and other costing inputs -- were reviewed in depth and revised as required. The results of the study are discussed in summary form below and are presented in considerable detail in Appendix A which contains the results of the CIA developed ADP system for computing expenditure estimates. Three separate computer listings are included in Appendix A. The first lists expenditures by specific type of organizational unit, by year and by expenditure account; the second lists production in physical and value terms for selected items of equipment that underlie the procurement expenditure estimates; and the third lists the force structure, in O/B and manpower terms, that underlies the expenditure estimates. Appendix B also supports the costing results presented in this section of the report. It defines the accounting system and describes the methodological approaches used for the study.

* To simplify the presentation, only expenditures generated by the high NIPP-66 force structure are discussed in the main body of the report. Detailed data for both the high and low force structures are presented in Appendix A.

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The dollar values presented in this section and the supporting Appendices are designed to express what it would cost to equip, operate and maintain the Soviet force structure in the US in 1964. As such, these data provide a useful basis for comparison with counterpart US expenditures, but can be misleading as a guide to the composition of expenditures as seen by Soviet military planners. For example, the dollar valuations indicate that approximately 65-70 percent of total expenditures are for personnel (pay and allowances and food), but when calculated on a ruble basis the share for personnel is only 45-50 percent.

The results of the re-evaluation made for this study are shown in Table 1* where they are compared by year with the expenditure data in NIPP-66** at the major category level. A more detailed comparison, by specific expenditure account, is presented in Table 2*** for one year, 1965.

A. Total Expenditures

The level of total expenditures for Soviet Ground Troops changed only slightly as the result of the re-evaluation. For example, total NIPP-66 expenditures for the Ground Troops for 1965 were at $9.39 billion; the revisions produced a new total of $9.22 billion or approximately a two percent decrease (see Table 1). This relatively unchanged total obscures some fairly significant changes in individual expenditure accounts that are offsetting. Descriptions of the more important changes follow.

B. Procurement

The total procurement expenditure estimate for 1965 was reduced by about 10 percent. Most of this decrease can be attributed to a fairly substantial change -- 20 percent -- in the Land Armaments and Ammunition Account (see Table 2). The expenditure revision for this account is the result of employing a new methodology for imputing expenditures for procurement of land armaments. This new approach more directly relates expenditures for land armaments to requirements based on estimated force structures -- O/Bs and T/Es. For a detailed explanation of the approach used, see Appendix B.

The decrease of 20 percent in land armaments and ammunition procurement expenditures is partially offset by increases in the procurement expenditures for aircraft, organizational equipment, and general purpose

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* Table 1 follows on page 5.

** Some adjustment to the expenditure data as shown in NIPP-66 was required before comparison -- i.e., expenditures for Naval Infantry Brigades had to be deleted, as well as expenditures for nuclear weapons and construction of personnel facilities.

*** Table 2 follows on page 6.

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Table 1

Dollar Valuation of Estimated Expenditures for Soviet Ground Troops:

Comparison of NIPP-66 and Working Group

1962-66[a]

Billion Dollars

Expenditure Category	1962	1963	1964	1965	1966
Procurement					
NIPP-66	2.45	2.40	2.46	2.64	2.69
Working Group	2.15	2.18	2.24	2.42	2.45
Difference	-0.30	-0.22	-0.22	-0.23	-0.24
Personnel					
NIPP-66	6.16	6.12	6.03	6.03	6.03
Working Group	6.16	6.12	6.03	6.03	6.03
Difference	0	0	0	0	0
Operation and Maintenance					
NIPP-66	0.65	0.67	0.70	0.72	0.75
Working Group	0.71	0.73	0.76	0.77	0.81
Difference	+0.06	+0.06	+0.05	+0.05	+0.05
Total					
NIPP-66	9.27	9.19	9.19	9.39	9.47
Working Group	9.03	9.03	9.03	9.22	9.29
Difference	-0.24	-0.16	-0.17	-0.17	-0.19

a/ Because of rounding, components may not add to the total shown. Expenditure data for high force structures only.

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Table 2

Dollar Valuation of Estimated Expenditures for Soviet Ground Troops a/

by Expenditure Account: Comparison of NIPP-66

and Working Group

1965

	Million Dollars	
	NIPP-66	Working Group
Procurement	2,643	2,417
Land Armaments and Ammunition	1,400	1,106
Aircraft	0	17
Missiles	303	303
Electronic Equipment	379	379
Organizational Equipment	491	514
General Purpose Vehicles	70	98
Personnel	6,032	6,032
Pay and Allowances	5,233	5,233
Food	799	799
Operation and Maintenance	719	774
Personnel Facilities	137	137
Land Armaments	173	226
Missile Systems	69	69
Electronic Equipment	171	171
Fixed Communication Leasing	16	16
General Purpose Vehicles	29	33
POL-Vehicles	20	17
Medical Care	35	35
Transportation	48	48
Printing and Publishing	21	21
Total	9,393	9,222

a/ Expenditure data for high force structures only.

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vehicles. Expenditures for procurement of aircraft have been added to adequately account for those aircraft directly subordinate to the Ground Troops. In NIPP-66 these expenditures were allocated to Military Transport Aviation. Organizational equipment procurement was increased to reflect more detailed analog data recently made available. Similarly, expenditures for general purpose vehicle procurement have increased as a result of more recent and highly refined data.

C. Personnel

The estimate of expenditures for military personnel in the Ground Troops has not been revised. The direct application of corresponding US military personnel costs to calculate the dollar costs of Soviet forces precluded the necessity for changing this estimate.

D. Operation and Maintenance

Estimated total expenditures for 1965 for operation and maintenance increased from $719 million to $774 million as a result of the re-evaluation. On a per man basis, expenditures increased from $490 to $528. O&M expenditures for land armaments and general purpose vehicles as well as outlays for vehicle POL consumption were the only expenditure accounts that were changed. The re-evaluation made in this area did not result in significant expenditure changes but did considerably raise the confidence level in the expenditure factors and methodologies.

E. Reliability

The reliability of the force structure costing is a function of the accuracy of a spectrum of variables, all of which have an impact on the results. At one end of this spectrum is the basic physical input data -- O/Bs and T/Es. At the other end is the price data -- the price of a tank or the pay of a soldier. In between there are several other kinds of inputs to the costing process, some of which are closer to the physical end of the spectrum -- e.g., the estimates of production requirements of hardware items that are directly derived from the given O/B and T/E data -- and some of which are very close to the price end -- e.g., the estimated POL consumption rate for a specific tank model. For purposes of this study, the basic physical input data was taken as provided by the force structure in NIPP-66 so that research effort could be concentrated on the dollar prices and other costing inputs just described. As a result, the judgments made here with respect to reliability should be understood to apply only to these two aspects of the overall expenditure estimating process.

We cannot statistically impute a probability estimate of the reliability of the estimates in the normal manner, because of the complete absence of any actual bench-mark data. We are willing, how-

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ever, to hazard, strictly as a subjective judgment based on close familiarity with the input data and the costing process, that the aggregate results are probably not more than ten percent too high or fifteen percent too low*. Further, although we believe that the subtotals which represent expenditures by major category -- e.g., procurement, personnel, etc. -- are also reasonably accurate, our confidence in the degree of reliability generally declines as the data becomes more highly specified.

The plus ten percent/minus fifteen percent range mentioned above reflects our judgment that the estimates probably have a somewhat conservative bias as a result of our inability to explicitly identify all expenditure generating programs and activities, especially in the O&M area.

III. Comparison of the Dollar Valuation of Estimated Soviet Expenditures and US Expenditures (TOA) for Ground Troops, 1962-66

Tables 3 and 4** present a comparison of the Soviet data discussed above in Part II, and expenditure data for the US Army***. In Table 3, the Soviet data is compared with the available expenditure data for the US Army (Program III**** - General Purpose Forces). In trying to make such comparisons it was quickly discovered that several adjustments to this US data were necessary to achieve reasonably meaningful comparability with the Soviet expenditure estimates for Ground Troops*****.

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* The details on methodology presented in Appendix B should allow the reader to form at least limited independent judgments of reliability, especially with respect to specific accounts.

** Tables 3 and 4 follow on page 9 and page 10, respectively.

*** Data for the US Army are on a total obligational authority (TOA) basis. Although actual expenditures may differ from TOA, especially when levels are changing rapidly, it was not possible to take account of the distinction for the analysis in this section.

**** Recently changed to Program II.

***** The most important adjustment was the deletion of civilian personnel expenditures from the US Army (Program III) data. For a detailed discussion of this and other adjustments, see Appendix C, page C-1. Additional incomparabilities were identified for which adjustments could not be made because of limitations in the available US data. For example, it was established that a considerable amount of organizational equipment is funded under O&M in the US data, but in the Soviet estimates all expenditures for this type of equipment are included under procurement. The amount of such expenditure in O&M on the US side could not be quantified with tolerable accuracy, so a reasonable adjustment could not be made.

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Table 3

Comparison: Unadjusted Expenditures (TOA) for US Army (Program III) and Working Group Dollar Valuations of Soviet Ground Troops

1962-66

	US Army (Program III) Unadjusted (Fiscal Year)					Soviet Ground Troops - Working Group High Force Structure (Calendar Year)				
	1962	1963	1964	1965	1966	1962	1963	1964	1965	1966
	(- - - - - - - - - - - - - - - - - - Billion Dollars - - - - - - - - - - - - - - - - - -)									
Personnel	2.72	2.49	2.56	2.56	3.10	6.16	6.12	6.03	6.03	6.03
Procurement	2.11	2.01	2.05	1.50	4.43	2.15	2.18	2.24	2.42	2.45
Of which:										
Land Armaments[a]	0.57	0.46	0.34	0.22	0.52	0.74	0.83	0.82	0.78	0.74
Aircraft[b]	0.15	0.16	0.21	0.29	0.47	0.04	0.03	0.03	0.02	0.03
O&M	1.24	1.28	1.30	1.34	1.79	0.71	0.73	0.76	0.77	0.81
Total	6.07	5.78	5.91	5.40	9.32	9.03	9.03	9.03	9.22	9.29
	(- - - - - - - - - - - - - - - - - - Thousand Men - - - - - - - - - - - - - - - - - -)									
Manpower	726	646	621	603	712	1,496	1,486	1,466	1,466	1,466
	(- - - - - - - - - - - - - - - - - - Dollars per Man[c] - - - - - - - - - - - - - - - - - -)									
Personnel	3,700	3,900	4,100	4,200	4,400	4,100	4,100	4,100	4,100	4,100
Procurement	2,900	3,100	3,300	2,500	6,200	1,400	1,500	1,500	1,600	1,700
Of which:										
Land Armaments	700	610	470	300	600	500	560	560	540	510
Aircraft	180	210	290	400	540	26	18	18	12	24
O&M	1,700	2,000	2,100	2,200	2,500	480	490	520	530	550
Total	8,400	8,900	9,500	9,000	13,000	6,000	6,100	6,200	6,300	6,300

a/The data for the US are identified as total US Army procurement, not just Program III, but it has been assumed that essentially all Land Armaments are procured for Program III end use.

b/The data for the US are identified as total procurement for Program III Aviation Companies (separate) and Aviation Companies (organic). It has been assumed that all aircraft procurement for US Army (Program III) is included in these two items and that the amount of non-aircraft procurement included is negligible.

c/Low force structure per man factors are almost identical.

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Table 4

Comparison: Adjusted Expenditures (TOA) for US Army (Program III) and Working Group Dollar Valuations of Soviet Ground Troops

1962-66

	US Army (Program III) Adjusted (Fiscal Year)					Soviet Ground Troops - Working Group High Force Structure (Calendar Year)				
	1962	1963	1964	1965	1966	1962	1963	1964	1965	1966
	(- - - - - - - - - - - - - - - - - - Billion Dollars - - - - - - - - - - - - - - - - - -)									
Personnel	3.08	2.88	3.01	3.05	3.75	6.16	6.12	6.03	6.03	6.03
Procurement	2.12	2.02	2.07	1.53	4.45	2.15	2.18	2.24	2.42	2.45
Of which:										
Land Armaments[a]	0.57	0.46	0.34	0.22	0.52	0.74	0.83	0.82	0.78	0.74
Aircraft[b]	0.15	0.16	0.21	0.29	0.47	0.04	0.03	0.03	0.02	0.03
O&M	0.90	0.77	0.82	0.86	1.33	0.71	0.73	0.76	0.77	0.81
Total	6.09	5.67	5.90	5.44	9.53	9.03	9.03	9.03	9.22	9.29
	(- - - - - - - - - - - - - - - - - - Thousand Men - - - - - - - - - - - - - - - - - -)									
Manpower	823	741	726	715	865	1,496	1,486	1,466	1,466	1,466
	(- - - - - - - - - - - - - - - - - - Dollars per Man[c] - - - - - - - - - - - - - - - - - -)									
Personnel	3,700	3,900	4,100	4,300	4,300	4,100	4,100	4,100	4,100	4,100
Procurement	2,600	2,700	2,900	2,100	5,100	1,400	1,500	1,500	1,600	1,700
Of which:										
Land Armaments	700	610	470	300	600	500	560	560	540	510
Aircraft	180	210	290	400	540	26	18	18	12	24
O&M	1,100	1,000	1,100	1,200	1,500	480	490	520	530	550
Total	7,400	7,600	8,100	7,600	11,000	6,000	6,100	6,200	6,300	6,300

a/The data for the US are identified as total US Army procurement, not just Program III, but it has been assumed that essentially all Land Armaments are procured for Program III end use.
b/The data for the US are identified as total procurement for Program III Aviation Companies (separate) and Aviation Companies (organic). It has been assumed that all aircraft procurement for US Army (Program III) is included in these two items and that the amount of non-aircraft procurement included is negligible.
c/Low force structure per man factors are almost identical.

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The effects of making the required adjustments on the US data and the consequent US-USSR comparison may be seen by comparing Tables 3 and 4. As may be noted, the very substantial US-USSR differences shown in Table 3 have been considerably narrowed by the comparability adjustments to the US data. The more salient comparisons are discussed below*.

A. Total Expenditures

Total Soviet expenditures average $9.1 billion per year for the period 1962-65 or approximately 55 percent higher than the US annual average of $5.8 billion. Because of the much higher Soviet manpower levels, however, the US expenditures on a per man basis, $8,900 per year, are about 45 percent higher than the Soviet average of $6,100 per man per year. After comparability adjustment of the US data there is very little change in the comparison in absolute terms, but in per man terms the US average is reduced from $8,900 to $7,700 or in percentage terms from 45 percent greater than the Soviet to 25 percent greater.

B. Procurement

The US-USSR comparison of total expenditures for procurement changes very little as a result of the adjustments to the US data. Both before and after the adjustment the Soviet expenditure average for 1962-65 exceeds the US by about 15 percent at a level of about $2.2 billion for the USSR and about $1.9 billion for the US. On the per man basis, the change is more pronounced. Before adjustment the US average figure of about $3,000 per man is twice the Soviet level of $1,500 per man. After adjustment the gap is reduced so that the US average per man of about $2,600 is about 70 percent greater than the Soviet per man average.

The two specific procurement accounts shown in Tables 3 and 4 are of particular interest. In the case of land armaments, the average Soviet total expenditure for 1962-65 of $0.8 billion is double the US level of $0.4 billion, but in per man terms, the US figure of $520 per man is about equal to the Soviet average of $540 per man. In the case of aircraft procurement, the contrast is very pronounced. Total expenditures for the US average $200 million, about seven times the Soviet figure of $30 million. In average per man terms, the disparity is even more marked. The US figure of $270 is more than 14 times the Soviet figure of $19 per man.

* Because of the obvious effect of the Vietnam situation on the 1966 US data, 1966 has been excluded from consideration in the analysis in this section.

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C. Personnel

There are very sizeable differences in Soviet and US total personnel expenditures, but these are almost entirely a direct function of the appreciable differences in manpower levels. On a per man basis, the differences are negligible and, technically, should be zero because of the methodology used for calculating dollar personnel costs of Soviet forces -- i.e., the application of US military personnel costs to Soviet military manpower.

D. Operation and Maintenance

The differences between US and Soviet expenditures for O&M for 1962-65, both in total and per man terms, are substantial and the changes in the comparisons caused by adjustment of the US expenditure data are very pronounced. The US total for O&M averages $1.3 billion per year before adjustment and is about 75 percent higher than the Soviet average of $0.7 billion per year. On a per man basis the US average figure of $2,000 per man per year is 4 times the comparable Soviet figure of $500. After adjustment, however, the disparity is reduced to the extent that the US expenditure in total terms is only about 15 percent higher -- $0.8 billion for the US and $0.7 billion for the USSR. In per man terms, the adjusted* US figure is reduced to $1,100, about twice the Soviet figure of $500.

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* As pointed out above (see footnote, page 8), some identified incomparabilities remain in the adjusted US data, but not enough information was available to make a reasonable adjustment.

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Appendix A

Statistical Tables (Computer Listings)

The computer listings in this appendix are divided into two major sections. The first contains the detailed data for the low force structure, and the second contains the counterpart data for the high force structure. The order of presentation within these two major sections is as follows. The first set of listings (pages A-2 through A-19 for the low and pages A-26 through A-43 for the high) contains the estimated expenditures by individual organizational unit and a summary page (page A-19 for the low and page A-43 for the high) which presents aggregate expenditure estimates for the entire Ground Troops Element. It should be noted that it has not been possible to allocate all expenditures for the Ground Troops to individual organizational units. Those expenditures which have not been so allocated are identified as "non-unit related" and are shown on page A-18 for the low and page A-42 for the high. The second set of listings (pages A-20 through A-23 for the low and pages A-44 through A-47 for the high) contains the data on procurement of land armaments and ammunition used in developing the expenditure estimates. The third set of listings (pages A-24 through A-25 for the low and pages A-48 through A-49 for the high) contains the O/B and derived manpower data used to generate the expenditure estimates.

The expenditure data shown in the computer listings in this appendix are expressed in millions of dollars carried to two decimal places. This level of detail makes it possible for the reader to gain some perception of smaller movements in the underlying physical data, but it should be understood that it is not meant to suggest that the accuracy of the data is such that significance can be attached to the second decimal place. As pointed out elsewhere in this report, our confidence in the reliability of the expenditure estimates generally declines as the data becomes more detailed.

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LOW

Unit Expenditures - Procurement - Force Structure

Approved For Release 2001/11/07 : CIA-RDP79B00972A000100160001-3

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS MTZ RIFLE DIV-CUR-I-GF	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	6.27	6.27	6.27	6.27	6.27
ORGANIZATIONAL EQ.	40.00	40.00	40.00	40.00	40.00
SUB-TOTAL	46.27	46.27	46.27	46.27	46.27
TOTAL PROCUREMENT	46.27	46.27	46.27	46.27	46.27
TOTAL INVESTMENT	46.27	46.27	46.27	46.27	46.27
PERSONNEL					
PAY AND ALLOWANCES	406.98	406.98	406.98	406.98	406.98
FOOD	62.13	62.13	62.13	62.13	62.13
TOTAL PERSONNEL	469.11	469.11	469.11	469.11	469.11
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	10.65	10.65	10.65	10.65	10.65
LAND ARMAMENTS	18.68	18.68	18.68	18.68	18.68
G.P. VEHICLES	2.46	2.46	2.46	2.46	2.46
POL VEHICLES	1.26	1.26	1.26	1.26	1.26
MEDICAL CARE	2.74	2.74	2.74	2.74	2.74
TRANSPORTATION	3.77	3.77	3.77	3.77	3.77
PRNTG AND PUBLSHNG	1.66	1.66	1.66	1.66	1.66
TOTAL OP. AND MTC.	40.62	40.62	40.62	40.62	40.62
TOTAL OPERATING	509.73	509.73	509.73	509.73	509.73
TOTAL SYSTEM	556.00	556.00	556.00	556.00	556.00

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS MTZ RIFLE DIV-CUR-I-INT	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	5.75	5.75	6.22	6.22	6.22
ORGANIZATIONAL EQ.	36.63	36.63	39.68	39.68	39.68
SUB-TOTAL	42.37	42.37	45.90	45.90	45.90
TOTAL PROCUREMENT	42.37	42.37	45.90	45.90	45.90
TOTAL INVESTMENT	42.37	42.37	45.90	45.90	45.90
PERSONNEL					
PAY AND ALLOWANCES	372.71	372.71	403.77	403.77	403.77
FOOD	56.90	56.90	61.64	61.64	61.64
TOTAL PERSONNEL	429.61	429.61	465.41	465.41	465.41
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	9.76	9.76	10.57	10.57	10.57
LAND ARMAMENTS	16.56	16.56	17.94	17.94	17.94
G.P. VEHICLES	2.25	2.25	2.44	2.44	2.44
POL VEHICLES	1.16	1.16	1.25	1.25	1.25
MEDICAL CARE	2.51	2.51	2.71	2.71	2.71
TRANSPORTATION	3.45	3.45	3.74	3.74	3.74
PRNTG AND PUBLSHNG	1.52	1.52	1.65	1.65	1.65
TOTAL OP. AND MTC.	37.20	37.20	40.30	40.30	40.30
TOTAL OPERATING	466.81	466.81	505.71	505.71	505.71
TOTAL SYSTEM	509.18	509.18	551.62	551.62	551.62

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS MTZ RIFLE DIV-CUR-II	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	10.86	11.25	11.25	11.25	11.25
ORGANIZATIONAL EQ.	69.26	71.73	71.73	71.73	71.73
SUB-TOTAL	80.12	82.98	82.98	82.98	82.98
TOTAL PROCUREMENT	80.12	82.98	82.98	82.98	82.98
TOTAL INVESTMENT	80.12	82.98	82.98	82.98	82.98
PERSONNEL					
PAY AND ALLOWANCES	704.72	729.89	729.89	729.89	729.89
FOOD	107.58	111.43	111.43	111.43	111.43
TOTAL PERSONNEL	812.30	841.31	841.31	841.31	841.31
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	18.45	19.11	19.11	19.11	19.11
LAND ARMAMENTS	31.32	32.43	32.43	32.43	32.43
G.P. VEHICLES	4.25	4.40	4.40	4.40	4.40
POL VEHICLES	2.19	2.26	2.26	2.26	2.26
MEDICAL CARE	4.74	4.91	4.91	4.91	4.91
TRANSPORTATION	6.52	6.76	6.76	6.76	6.76
PRNTG AND PUBLSHNG	2.88	2.99	2.99	2.99	2.99
TOTAL OP. AND MTC.	70.35	72.86	72.86	72.86	72.86
TOTAL OPERATING	882.65	914.17	914.17	914.17	914.17
TOTAL SYSTEM	962.77	997.15	997.15	997.15	997.15

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of Estimated Expenditures for Soviet Ground Troops 1962-66 (Low)

Millions of Dollars

GROUND TROOPS MTL RIFLE DIV-CUR-III	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	2.86	2.75	2.64	2.64	2.64
ORGANIZATIONAL EQ.	18.24	17.54	16.84	16.84	16.84
SUB-TOTAL	21.11	20.29	19.48	19.48	19.48
TOTAL PROCUREMENT	21.11	20.29	19.48	19.48	19.48
TOTAL INVESTMENT	21.11	20.29	19.48	19.48	19.48
PERSONNEL					
PAY AND ALLOWANCES	185.66	178.50	171.36	171.36	171.36
FOOD	28.34	27.25	26.16	26.16	26.16
TOTAL PERSONNEL	213.98	205.75	197.52	197.52	197.52
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	4.86	4.67	4.49	4.49	4.49
LAND ARMAMENTS	8.25	7.93	7.61	7.61	7.61
G.P. VEHICLES	1.12	1.08	1.03	1.03	1.03
POL VEHICLES	0.58	0.55	0.53	0.53	0.53
MEDICAL CARE	1.25	1.20	1.15	1.15	1.15
TRANSPORTATION	1.72	1.65	1.59	1.59	1.59
PRNTG AND PUBLSHNG	0.76	0.73	0.70	0.70	0.70
TOTAL OP. AND MTC.	18.58	17.82	17.11	17.11	17.11
TOTAL OPERATING	232.51	223.57	214.63	214.63	214.63
TOTAL SYSTEM	253.62	243.86	234.11	234.11	234.11

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS TANK-DIV-CUR-I-GF	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	6.62	6.62	6.62	6.62	6.62
ORGANIZATIONAL EQ.	38.80	38.80	38.80	38.80	38.80
SUB-TOTAL	45.42	45.42	45.42	45.42	45.42
TOTAL PROCUREMENT	45.42	45.42	45.42	45.42	45.42
TOTAL INVESTMENT	45.42	45.42	45.42	45.42	45.42
PERSONNEL					
PAY AND ALLOWANCES	394.84	394.84	394.84	394.84	394.84
FOOD	60.28	60.28	60.28	60.28	60.28
TOTAL PERSONNEL	455.12	455.12	455.12	455.12	455.12
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	10.34	10.34	10.34	10.34	10.34
LAND ARMAMENTS	25.69	25.69	25.69	25.69	25.69
G.P. VEHICLES	2.65	2.65	2.65	2.65	2.65
POL VEHICLES	1.55	1.55	1.55	1.55	1.55
MEDICAL CARE	2.65	2.65	2.65	2.65	2.65
TRANSPORTATION	3.65	3.65	3.65	3.65	3.65
PRNTG AND PUBLSHNG	1.61	1.61	1.61	1.61	1.61
TOTAL OP. AND MTC.	48.15	48.15	48.15	48.15	48.15
TOTAL OPERATING	503.27	503.27	503.27	503.27	503.27
TOTAL SYSTEM	548.69	548.69	548.69	548.69	548.69

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Dollar Valuation of
Estimated Expenditures For Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS TANK-DIV-CUR-I-INT	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	4.71	4.71	4.71	4.71	4.71
ORGANIZATIONAL EQ.	27.59	27.59	27.59	27.59	27.59
SUB-TOTAL	32.30	32.30	32.30	32.30	32.30
TOTAL PROCUREMENT	32.30	32.30	32.30	32.30	32.30
TOTAL INVESTMENT	32.30	32.30	32.30	32.30	32.30
PERSONNEL					
PAY AND ALLOWANCES	280.78	280.78	280.78	280.78	280.78
FOOD	42.86	42.86	42.86	42.86	42.86
TOTAL PERSONNEL	323.64	323.64	323.64	323.64	323.64
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	7.35	7.35	7.35	7.35	7.35
LAND ARMAMENTS	18.27	18.27	18.27	18.27	18.27
G.P. VEHICLES	1.88	1.88	1.88	1.88	1.88
POL VEHICLES	1.10	1.10	1.10	1.10	1.10
MEDICAL CARE	1.89	1.89	1.89	1.89	1.89
TRANSPORTATION	2.60	2.60	2.60	2.60	2.60
PRNTG AND PUBLSHNG	1.15	1.15	1.15	1.15	1.15
TOTAL OP. AND MTC.	34.24	34.24	34.24	34.24	34.24
TOTAL OPERATING	357.89	357.89	357.89	357.89	357.89
TOTAL SYSTEM	390.18	390.18	390.18	390.18	390.18

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS TANK DIV-CUR-II	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	6.82	6.82	6.82	6.82	6.82
ORGANIZATIONAL EQ.	40.00	40.00	40.00	40.00	40.00
SUB-TOTAL	46.82	46.82	46.82	46.82	46.82
TOTAL PROCUREMENT	46.82	46.82	46.82	46.82	46.82
TOTAL INVESTMENT	46.82	46.82	46.82	46.82	46.82
PERSONNEL					
PAY AND ALLOWANCES	406.98	406.98	406.98	406.98	406.98
FOOD	62.13	62.13	62.13	62.13	62.13
TOTAL PERSONNEL	469.11	469.11	469.11	469.11	469.11
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	10.65	10.65	10.65	10.65	10.65
LAND ARMAMENTS	26.48	26.48	26.48	26.48	26.48
G.P. VEHICLES	2.73	2.73	2.73	2.73	2.73
POL VEHICLES	1.60	1.60	1.60	1.60	1.60
MEDICAL CARE	2.74	2.74	2.74	2.74	2.74
TRANSPORTATION	3.77	3.77	3.77	3.77	3.77
PRNTG AND PUBLSHNG	1.66	1.66	1.66	1.66	1.66
TOTAL OP. AND MTC.	49.63	49.63	49.63	49.63	49.63
TOTAL OPERATING	518.74	518.74	518.74	518.74	518.74
TOTAL SYSTEM	565.56	565.56	565.56	565.56	565.56

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS AIRBORNE DIV-CUR-I	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	0.74	0.74	0.74	0.74	0.74
ORGANIZATIONAL EQ.	6.74	6.74	6.74	6.74	6.74
SUB-TOTAL	7.47	7.47	7.47	7.47	7.47
TOTAL PROCUREMENT	7.47	7.47	7.47	7.47	7.47
TOTAL INVESTMENT	7.47	7.47	7.47	7.47	7.47
PERSONNEL					
PAY AND ALLOWANCES	68.54	68.54	68.54	68.54	68.54
FOOD	10.46	10.46	10.46	10.46	10.46
TOTAL PERSONNEL	79.01	79.01	79.01	79.01	79.01
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	1.79	1.79	1.79	1.79	1.79
LAND ARMAMENTS	0.92	0.92	0.92	0.92	0.92
G.P. VEHICLES	0.28	0.28	0.28	0.28	0.28
POL VEHICLES	0.07	0.07	0.07	0.07	0.07
MEDICAL CARE	0.46	0.46	0.46	0.46	0.46
TRANSPORTATION	0.63	0.63	0.63	0.63	0.63
PRNTG AND PUBLSHNG	0.28	0.28	0.28	0.28	0.28
TOTAL OP. AND MTC.	4.44	4.44	4.44	4.44	4.44
TOTAL OPERATING	83.45	83.45	83.45	83.45	83.45
TOTAL SYSTEM	90.92	90.92	90.92	90.92	90.92

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS AIRBORNE DIV-CUR-II	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	0.75	0.75	0.75	0.75	0.75
ORGANIZATIONAL EQ.	6.88	6.88	6.88	6.88	6.88
SUB-TOTAL	7.63	7.63	7.63	7.63	7.63
TOTAL PROCUREMENT	7.63	7.63	7.63	7.63	7.63
TOTAL INVESTMENT	7.63	7.63	7.63	7.63	7.63
PERSONNEL					
PAY AND ALLOWANCES	69.97	69.97	69.97	69.97	69.97
FOOD	10.68	10.68	10.68	10.68	10.68
TOTAL PERSONNEL	80.65	80.65	80.65	80.65	80.65
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	1.83	1.83	1.83	1.83	1.83
LAND ARMAMENTS	0.94	0.94	0.94	0.94	0.94
G.P. VEHICLES	0.28	0.28	0.28	0.28	0.28
POL VEHICLES	0.07	0.07	0.07	0.07	0.07
MEDICAL CARE	0.47	0.47	0.47	0.47	0.47
TRANSPORTATION	0.65	0.65	0.65	0.65	0.65
PRNTG AND PUBLSHNG	0.29	0.29	0.29	0.29	0.29
TOTAL OP. AND MTC.	4.53	4.53	4.53	4.53	4.53
TOTAL OPERATING	85.19	85.19	85.19	85.19	85.19
TOTAL SYSTEM	92.81	92.81	92.81	92.81	92.81

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS CORPS	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	7.55	7.55	6.71	6.71	6.71
ORGANIZATIONAL EQ.	23.05	23.05	20.49	20.49	20.49
SUB-TOTAL	30.60	30.60	27.20	27.20	27.20
TOTAL PROCUREMENT	30.60	30.60	27.20	27.20	27.20
TOTAL INVESTMENT	30.60	30.60	27.20	27.20	27.20
PERSONNEL					
PAY AND ALLOWANCES	234.55	234.55	208.49	208.49	208.49
FOOD	35.81	35.81	31.83	31.83	31.83
TOTAL PERSONNEL	270.36	270.36	240.32	240.32	240.32
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	6.14	6.14	5.46	5.46	5.46
LAND ARMAMENTS	11.54	11.54	10.26	10.26	10.26
G.P. VEHICLES	1.73	1.73	1.54	1.54	1.54
POL VEHICLES	1.07	1.07	0.95	0.95	0.95
MEDICAL CARE	1.58	1.58	1.40	1.40	1.40
TRANSPORTATION	2.17	2.17	1.93	1.93	1.93
PRNTG AND PUBLSHNG	0.96	0.96	0.85	0.85	0.85
TOTAL OP. AND MTC.	25.18	25.18	22.39	22.39	22.39
TOTAL OPERATING	295.54	295.54	262.70	262.70	262.70
TOTAL SYSTEM	326.14	326.14	289.90	289.90	289.90

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS CMBD ARMS ARMY-A	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	6.55	5.24	3.93	3.93	3.93
ORGANIZATIONAL EQ.	20.00	16.00	12.00	12.00	12.00
SUB-TOTAL	26.54	21.24	15.93	15.93	15.93
TOTAL PROCUREMENT	26.54	21.24	15.93	15.93	15.93
TOTAL INVESTMENT	26.54	21.24	15.93	15.93	15.93
PERSONNEL					
PAY AND ALLOWANCES	203.49	162.79	122.09	122.09	122.09
FOOD	31.06	24.85	18.64	18.64	18.64
TOTAL PERSONNEL	234.55	187.64	140.73	140.73	140.73
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	5.33	4.26	3.20	3.20	3.20
LAND ARMAMENTS	10.01	8.01	6.01	6.01	6.01
G.P. VEHICLES	1.50	1.20	0.90	0.90	0.90
POL VEHICLES	0.93	0.74	0.56	0.56	0.56
MEDICAL CARE	1.37	1.09	0.82	0.82	0.82
TRANSPORTATION	1.88	1.51	1.13	1.13	1.13
PRNTG AND PUBLSHNG	0.83	0.67	0.50	0.50	0.50
TOTAL OP. AND MTC.	21.85	17.48	13.11	13.11	13.11
TOTAL OPERATING	256.40	205.12	153.84	153.84	153.84
TOTAL SYSTEM	282.95	226.36	169.77	169.77	169.77

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS CMBD ARMS ARMY-B	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	11.72	11.72	11.72	11.72	11.72
ORGANIZATIONAL EQ.	35.79	35.79	35.79	35.79	35.79
SUB-TOTAL	47.50	47.50	47.50	47.50	47.50
TOTAL PROCUREMENT	47.50	47.50	47.50	47.50	47.50
TOTAL INVESTMENT	47.50	47.50	47.50	47.50	47.50
PERSONNEL					
PAY AND ALLOWANCES	364.14	364.14	364.14	364.14	364.14
FOOD	55.59	55.59	55.59	55.59	55.59
TOTAL PERSONNEL	419.73	419.73	419.73	419.73	419.73
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	9.53	9.53	9.53	9.53	9.53
LAND ARMAMENTS	17.92	17.92	17.92	17.92	17.92
G.P. VEHICLES	2.68	2.68	2.68	2.68	2.68
POL VEHICLES	1.66	1.66	1.66	1.66	1.66
MEDICAL CARE	2.45	2.45	2.45	2.45	2.45
TRANSPORTATION	3.37	3.37	3.37	3.37	3.37
PRNTG AND PUBLSHNG	1.49	1.49	1.49	1.49	1.49
TOTAL OP. AND MTC.	39.10	39.10	39.10	39.10	39.10
TOTAL OPERATING	458.83	458.83	458.83	458.83	458.83
TOTAL SYSTEM	506.33	506.33	506.33	506.33	506.33

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS TANK ARMY-A	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	3.14	2.09	2.09	2.09	2.09
ORGANIZATIONAL EQ.	10.95	7.30	7.30	7.30	7.30
SUB-TOTAL	14.08	9.39	9.39	9.39	9.39
TOTAL PROCUREMENT	14.08	9.39	9.39	9.39	9.39
TOTAL INVESTMENT	14.08	9.39	9.39	9.39	9.39
PERSONNEL					
PAY AND ALLOWANCES	111.38	74.26	74.26	74.26	74.26
FOOD	17.00	11.34	11.34	11.34	11.34
TOTAL PERSONNEL	128.39	85.59	85.59	85.59	85.59
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	2.92	1.94	1.94	1.94	1.94
LAND ARMAMENTS	5.66	3.77	3.77	3.77	3.77
G.P. VEHICLES	0.75	0.50	0.50	0.50	0.50
POL VEHICLES	0.46	0.31	0.31	0.31	0.31
MEDICAL CARE	0.75	0.50	0.50	0.50	0.50
TRANSPORTATION	1.03	0.69	0.69	0.69	0.69
PRNTG AND PUBLSHNG	0.46	0.30	0.30	0.30	0.30
TOTAL OP. AND MTC.	12.02	8.01	8.01	8.01	8.01
TOTAL OPERATING	140.40	93.60	93.60	93.60	93.60
TOTAL SYSTEM	154.49	102.99	102.99	102.99	102.99

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS TANK ARMY-B	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	2.56	3.42	3.42	3.42	3.42
ORGANIZATIONAL EQ.	8.95	11.93	11.93	11.93	11.93
SUB-TOTAL	11.51	15.35	15.35	15.35	15.35
TOTAL PROCUREMENT	11.51	15.35	15.35	15.35	15.35
TOTAL INVESTMENT	11.51	15.35	15.35	15.35	15.35
PERSONNEL					
PAY AND ALLOWANCES	91.03	121.38	121.38	121.38	121.38
FOOD	13.90	18.53	18.53	18.53	18.53
TOTAL PERSONNEL	104.93	139.91	139.91	139.91	139.91
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	2.38	3.18	3.18	3.18	3.18
LAND ARMAMENTS	4.62	6.16	6.16	6.16	6.16
G.P. VEHICLES	0.61	0.81	0.81	0.81	0.81
POL VEHICLES	0.38	0.50	0.50	0.50	0.50
MEDICAL CARE	0.61	0.82	0.82	0.82	0.82
TRANSPORTATION	0.84	1.12	1.12	1.12	1.12
PRNTG AND PUBLSHNG	0.37	0.50	0.50	0.50	0.50
TOTAL OP. AND MTC.	9.82	13.09	13.09	13.09	13.09
TOTAL OPERATING	114.75	153.00	153.00	153.00	153.00
TOTAL SYSTEM	126.26	168.35	168.35	168.35	168.35

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-18. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS MD/GF HDS, ETC.	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	16.94	16.94	16.94	16.94	16.94
ORGANIZATIONAL EQ.	103.50	103.50	103.50	103.50	103.50
SUB-TOTAL	120.44	120.44	120.44	120.44	120.44
TOTAL PROCUREMENT	120.44	120.44	120.44	120.44	120.44
TOTAL INVESTMENT	120.44	120.44	120.44	120.44	120.44
PERSONNEL					
PAY AND ALLOWANCES	1053.15	1053.15	1053.15	1053.15	1053.15
FOOD	160.77	160.77	160.77	160.77	160.77
TOTAL PERSONNEL	1213.92	1213.92	1213.92	1213.92	1213.92
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	27.57	27.57	27.57	27.57	27.57
LAND ARMAMENTS	15.88	15.88	15.88	15.88	15.88
G.P. VEHICLES	6.35	6.35	6.35	6.35	6.35
POL VEHICLES	1.96	1.96	1.96	1.96	1.96
MEDICAL CARE	7.08	7.08	7.08	7.08	7.08
TRANSPORTATION	9.75	9.75	9.75	9.75	9.75
PRNTG AND PUBLSHNG	4.31	4.31	4.31	4.31	4.31
TOTAL OP. AND MTC.	72.90	72.90	72.90	72.90	72.90
TOTAL OPERATING	1286.82	1286.82	1286.82	1286.82	1286.82
TOTAL SYSTEM	1407.26	1407.26	1407.26	1407.26	1407.26

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS NON-UNIT RELATED	1962	1963	1964	1965	1966
PROCUREMENT					
LAND ARMS	551.15	526.65	512.30	489.61	521.19
AMMUNITION	202.63	219.78	228.75	246.81	242.80
AIRCRAFT	19.85	25.16	24.87	24.62	17.91
MISSILE SYSTEMS	130.08	120.01	104.88	195.82	292.58
ELECTRONIC EQ.	179.60	192.40	235.90	262.40	235.70
SUB-TOTAL	1083.52	1084.01	1107.20	1219.25	1310.47
TOTAL PROCUREMENT	1083.52	1084.01	1107.20	1219.25	1310.47
FACILITIES					
MISSILE FACILITIES	6.62	3.96	1.27	-	-
TOTAL FACILITIES	6.62	3.96	1.27	-	-
TOTAL INVESTMENT	1090.13	1087.97	1108.47	1219.25	1310.47
OPERATIONS AND MTC.					
MISSILE SYSTEMS	33.71	45.17	49.74	49.74	52.29
ELECTRONIC EQUIPMENT	62.00	72.50	85.10	100.90	113.30
FIXED COMMO LEASING	14.87	15.35	15.71	15.71	15.71
TOTAL OP. AND MTC.	110.59	133.02	150.55	166.35	186.29
TOTAL OPERATING	110.59	133.02	150.55	166.35	186.29
TOTAL SYSTEM	1200.72	1220.99	1259.02	1385.60	1496.76

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(Low)

Millions of Dollars

GROUND TROOPS	1962	1963	1964	1965	1966
PROCUREMENT					
LAND ARMS	531.15	526.65	512.30	489.61	521.19
AMMUNITION	202.83	219.78	228.75	246.81	242.80
AIRCRAFT	19.85	25.16	24.87	24.62	17.91
MISSILE SYSTEMS	130.03	120.01	104.88	195.82	292.86
ELECTRONIC EQ.	179.60	192.40	235.90	262.40	235.70
SUB-TOTAL	1063.52	1084.01	1107.20	1219.25	1310.47
G.P. VEHICLES	93.82	92.60	90.82	90.82	90.82
ORGANIZATIONAL EQ.	486.35	493.45	479.24	479.24	479.24
SUB-TOTAL	580.17	576.05	570.06	570.06	570.06
TOTAL PROCUREMENT	1663.69	1660.06	1677.27	1789.31	1880.53
FACILITIES					
MISSILE FACILITIES	6.62	3.96	1.27	-	-
TOTAL FACILITIES	6.62	3.96	1.27	-	-
TOTAL INVESTMENT	1670.30	1664.02	1678.54	1789.31	1880.53
PERSONNEL					
PAY AND ALLOWANCES	4948.91	4919.46	4876.62	4876.62	4876.62
FOOD	755.51	751.01	744.47	744.47	744.47
TOTAL PERSONNEL	5704.42	5670.47	5621.09	5621.09	5621.09
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	129.56	128.78	127.66	127.66	127.66
LAND ARMAMENTS	212.15	210.66	208.38	208.38	208.38
MISSILE SYSTEMS	33.71	45.17	49.74	49.74	52.29
ELECTRONIC EQUIPMENT	62.00	72.50	85.10	100.90	118.30
FIXED COMMO LEASING	14.87	15.35	15.71	15.71	15.71
G.P. VEHICLES	31.51	31.28	30.93	30.93	30.93
POL VEHICLES	16.03	15.87	15.64	15.64	15.64
MEDICAL CARE	33.27	33.07	32.79	32.79	32.79
TRANSPORTATION	45.81	45.54	45.14	45.14	45.14
PRNTG AND PUBLSHNG	20.24	20.12	19.95	19.95	19.95
TOTAL OP. AND MTC.	599.16	613.29	631.03	646.83	666.78
TOTAL OPERATING	6303.58	6283.76	6252.12	6267.92	6287.87
TOTAL SYSTEM	7973.88	7952.78	7930.66	8057.23	8168.40

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Procurement of Land Armaments for the
Soviet Ground Troops
1962-66
(Low)

NO=units procured
(except as noted)
CST=cost in millions of dollars

			62	63	64	65	66
TANKS PT-76		NO	110	109	81	27	-
		CST	6.1	6.0	4.5	1.5	-
T-55	M58	NO	1441	1441	1441	1441	1354
		CST	173.9	173.9	173.9	173.9	163.4
T-62	M60	NO	1082	1081	1081	1082	785
		CST	136.0	135.9	135.9	136.0	98.7
T-67		NO	-	-	-	-	759
		CST	-	-	-	-	103.1
	SUB-TOTAL		316.0	315.8	314.3	311.4	365.2
APC BTR-50P	M54	NO	1681	1681	1259	419	-
		CST	76.1	76.1	57.0	19.0	-
BTR-60P 8X8	M61	NO	1726	1682	1681	1682	1658
		CST	48.7	47.4	47.4	47.4	46.8
BRDM AMPH	M59	NO	1906	1879	1879	1879	1325
		CST	38.3	37.8	37.8	37.8	26.6
	SUB-TOTAL		163.1	161.3	142.2	104.2	73.4
ASLT GN ASU-85	M62	NO	92	93	-	-	-
		CST	4.0	4.0	-	-	-
	SUB-TOTAL		4.0	4.0	-	-	-
FLD ART 122/GH	M62	NO	169	480	677	677	669
		CST	5.2	14.8	20.9	20.9	20.6
	SUB-TOTAL		5.2	14.8	20.9	20.9	20.6

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Procurement of Land Armaments for the
Soviet Ground Troops
1962-66
(Low)

NO=units procured
(except as noted)
CST=cost in millions of dollars

			62	63	64	65	66
AAA 23MM ZU-2		NO	-	72	209	291	287
		CST	-	2.1	6.0	8.4	8.3
23MM ZSU-4		NO	-	-	-	74	204
		CST	-	-	-	5.2	14.3
TWIN 57MM	M55	NO	120	-	-	-	-
		CST	11.1	-	-	-	-
	SUB-TOTAL		11.1	2.1	6.0	13.6	22.5
RL 140MM 8-RND TWD		NO	70	69	-	-	-
		CST	0.1	0.1	-	-	-
140MM 16-RND TWD		NO	-	-	-	46	46
		CST	-	-	-	0.2	0.2
140MM 17-RND/GAZ		NO	173	173	173	129	29
		CST	1.3	1.3	1.3	0.9	0.2
FROG-7 8X8		NO	-	-	-	50	50
		CST	-	-	-	8.7	8.7
NEW WHLD 120MM		NO	-	-	-	-	-
		CST	-	-	-	-	-
	SUB-TOTAL		1.4	1.4	1.3	9.8	9.1
SMARMS 9MM MCH PST		NO	50	-	-	-	-
(NO = 1000 units)		CST	3.1	-	-	-	-
7.62 LMG RPK M61		NO	588	556	556	556	547
(NO - 10 units)		CST	0.6	0.6	0.6	0.6	0.6
7.62 SMG AKM		NO	240	219	219	219	217
(NO = 1000 units)		CST	28.8	26.3	26.3	26.3	26.0

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Procurement of Land Armaments for the
Soviet Ground Troops
1962-66
(Low)

NO=units procured
(except as noted)
CST=cost in millions of dollars

		62	63	64	65	66
7.62 PK M-64 (NO = 10 units)	NO	38	109	150	150	150
	CST	*	0.1	0.2	0.2	0.2
	SUB-TOTAL	32.5	27.0	27.0	27.0	26.8
RCLS RPG-7	NO	543	2739	3782	3782	3723
	CST	*	0.3	0.4	0.4	0.4
	SUB-TOTAL	*	0.3	0.4	0.4	0.4
PR MVRS M-54(AT-S)	NO	490	-	-	-	-
	CST	17.7	-	-	-	-
AT-S-59	NO	-	-	22	65	89
	CST	-	-	0.8	2.4	3.2
	SUB-TOTAL	17.7	-	0.8	2.4	3.2
	TOTAL COST	551.1	526.7	512.8	489.6	521.2

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Procurement of Ammunition for the
Soviet Ground Troops
1962-66
(Low)

NO=short tons procured
(except where noted)
CST=cost in millions of dollars

		62	63	64	65	66
SMALL ARMS	NO	6618	6466	6312	5984	5800
	CST	18.2	17.8	17.4	16.5	15.9
ARTILLERY	NO	50196	56306	62275	64642	69756
	CST	120.5	135.1	149.5	155.1	167.4
MORTARS	NO	2321	2321	2321	2321	2321
	CST	5.6	5.6	5.6	5.6	5.6
ROCKETS	NO	13630	13600	12030	12120	7550
	CST	43.5	43.4	38.4	38.7	24.1
RECOILLESS	NO	52	150	208	208	204
	CST	0.3	0.7	1.0	1.0	1.0
GRENADES	NO	1215	1215	1215	1215	1215
	CST	6.0	6.0	6.0	6.0	6.0
	SUB-TOTAL	194.0	208.6	217.8	222.8	220.0
FROGS	NO	752	968	968	2168	2120
(NO=warheads procured)	CST	8.9	11.2	11.0	24.0	22.8
	SUB-TOTAL	8.9	11.2	11.0	24.0	22.8
	TOTAL COST	202.8	219.8	228.8	246.8	242.8

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Soviet Ground Troops, 1962-66
Order of Battle and Manpower
(Low)

M=manpower in thousands
U=number of units
F=manning factor

		1962	1963	1964	1965	1966
MTZ RIFLE DIV-CUR-I-GF	M	114.0	114.0	114.0	114.0	114.0
	U	12	12	12	12	12
	F	9500	9500	9500	9500	9500
MTZ RIFLE DIV-CUR-I-INT	M	104.4	104.4	113.1	113.1	113.1
	U	12	12	13	13	13
	F	8700	8700	8700	8700	8700
MTZ RIFLE DIV-CUR-II	M	197.4	204.5	204.5	204.5	204.5
	U	28	29	29	29	29
	F	7050	7050	7050	7050	7050
MTL RIFLE DIV-CUR-III	M	52.0	50.0	48.0	48.0	48.0
	U	26	25	24	24	24
	F	2000	2000	2000	2000	2000
TANK-DIV-CUR-I-GF	M	110.6	110.6	110.6	110.6	110.6
	U	14	14	14	14	14
	F	7900	7900	7900	7900	7900
TANK-DIV-CUR-I-INT	M	78.7	78.7	78.7	78.7	78.7
	U	11	11	11	11	11
	F	7150	7150	7150	7150	7150
TANK DIV-CUR-II	M	114.0	114.0	114.0	114.0	114.0
	U	20	20	20	20	20
	F	5700	5700	5700	5700	5700
AIRBORNE DIV-CUR-I	M	19.2	19.2	19.2	19.2	19.2
	U	3	3	3	3	3
	F	6400	6400	6400	6400	6400
AIRBORNE DIV-CUR-II	M	19.6	19.6	19.6	19.6	19.6
	U	4	4	4	4	4
	F	4900	4900	4900	4900	4900
CORPS	M	65.7	65.7	58.4	58.4	58.4
	U	9	9	8	8	8
	F	7300	7300	7300	7300	7300
CMBD ARMS ARMY-A	M	57.0	45.6	34.2	34.2	34.2
	U	5	4	3	3	3
	F	11400	11400	11400	11400	11400

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Soviet Ground Troops, 1962-66
Order of Battle and Manpower
(Low)

M=manpower in thousands
U=number of units
F=manning factor

		1962	1963	1964	1965	1966
CMBD ARMS ARMY-S	M	102.0	102.0	102.0	102.0	102.0
	U	10	10	10	10	10
	F	10200	10200	10200	10200	10200
TANK ARMY-A	M	31.2	20.8	20.8	20.8	20.8
	U	3	2	2	2	2
	F	10400	10400	10400	10400	10400
TANK ARMY-B	M	25.5	34.0	34.0	34.0	34.0
	U	3	4	4	4	4
	F	8500	8500	8500	8500	8500
MD/GF HQS, ETC.	M	295.0	295.0	295.0	295.0	295.0
	U	1	1	1	1	1
	F	295000	295000	295000	295000	295000
GROUND TROOPS ELEMENT	M	1385.3	1378.0	1366.0	1366.0	1366.0

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HIGH

Unit Expenditures - Procurement - Force Structure

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-42. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS MTZ RIFLE DIV-CUR-I-GF	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	6.27	6.27	6.27	6.27	6.27
ORGANIZATIONAL EQ.	40.00	40.00	40.00	40.00	40.00
SUB-TOTAL	46.27	46.27	46.27	46.27	46.27
TOTAL PROCUREMENT	46.27	46.27	46.27	46.27	46.27
TOTAL INVESTMENT	46.27	46.27	46.27	46.27	46.27
PERSONNEL					
PAY AND ALLOWANCES	406.98	406.98	406.98	406.98	406.98
FOOD	62.13	62.13	62.13	62.13	62.13
TOTAL PERSONNEL	469.11	469.11	469.11	469.11	469.11
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	10.65	10.65	10.65	10.65	10.65
LAND ARMAMENTS	18.08	18.08	18.08	18.08	18.08
G.P. VEHICLES	2.46	2.46	2.46	2.46	2.46
POL VEHICLES	1.26	1.26	1.26	1.26	1.26
MEDICAL CARE	2.74	2.74	2.74	2.74	2.74
TRANSPORTATION	3.77	3.77	3.77	3.77	3.77
PRNTG AND PUBLSHNG	1.66	1.66	1.66	1.66	1.66
TOTAL OP. AND MTC.	40.62	40.62	40.62	40.62	40.62
TOTAL OPERATING	509.73	509.73	509.73	509.73	509.73
TOTAL SYSTEM	556.00	556.00	556.00	556.00	556.00

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS MTZ RIFLE DIV-CUR-I-INT	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	10.06	10.06	10.53	10.53	10.53
ORGANIZATIONAL EQ.	64.10	64.10	67.15	67.15	67.15
SUB-TOTAL	74.15	74.15	77.68	77.68	77.68
TOTAL PROCUREMENT	74.15	74.15	77.68	77.68	77.68
TOTAL INVESTMENT	74.15	74.15	77.68	77.68	77.68
PERSONNEL					
PAY AND ALLOWANCES	652.24	652.24	683.30	683.30	683.30
FOOD	99.57	99.57	104.31	104.31	104.31
TOTAL PERSONNEL	751.81	751.81	787.61	787.61	787.61
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	17.67	17.67	17.89	17.89	17.89
LAND ARMAMENTS	28.98	28.98	30.36	30.36	30.36
G.P. VEHICLES	3.93	3.93	4.12	4.12	4.12
POL VEHICLES	2.02	2.02	2.12	2.12	2.12
MEDICAL CARE	4.38	4.38	4.59	4.59	4.59
TRANSPORTATION	6.04	6.04	6.32	6.32	6.32
PRNTG AND PUBLSHNG	2.67	2.67	2.79	2.79	2.79
TOTAL OP. AND MTC.	65.11	65.11	68.21	68.21	68.21
TOTAL OPERATING	816.92	816.92	855.82	855.82	855.82
TOTAL SYSTEM	891.07	891.07	933.50	933.50	933.50

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS MTZ RIFLE DIV-CUR-II	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	7.76	8.15	8.15	8.15	8.15
ORGANIZATIONAL EQ.	49.47	51.94	51.94	51.94	51.94
SUB-TOTAL	57.23	60.09	60.09	60.09	60.09
TOTAL PROCUREMENT	57.23	60.09	60.09	60.09	60.09
TOTAL INVESTMENT	57.23	60.09	60.09	60.09	60.09
PERSONNEL					
PAY AND ALLOWANCES	503.37	528.54	528.54	528.54	528.54
FOOD	76.84	80.69	80.69	80.69	80.69
TOTAL PERSONNEL	580.21	609.23	609.23	609.23	609.23
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	13.18	13.84	13.84	13.84	13.84
LAND ARMAMENTS	22.37	23.49	23.49	23.49	23.49
G.P. VEHICLES	3.04	3.19	3.19	3.19	3.19
POL VEHICLES	1.56	1.64	1.64	1.64	1.64
MEDICAL CARE	3.38	3.55	3.55	3.55	3.55
TRANSPORTATION	4.66	4.89	4.89	4.89	4.89
PRNTG AND PUBLSHNG	2.06	2.16	2.16	2.16	2.16
TOTAL OP. AND MTC.	50.25	52.76	52.76	52.76	52.76
TOTAL OPERATING	630.46	661.98	661.98	661.98	661.98
TOTAL SYSTEM	687.69	722.07	722.07	722.07	722.07

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS MTZ RIFLE DIV-CUR-III	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	4.51	4.40	4.29	4.29	4.29
ORGANIZATIONAL EQ.	28.77	28.07	27.37	27.37	27.37
SUB-TOTAL	33.28	32.47	31.66	31.66	31.66
TOTAL PROCUREMENT	33.28	32.47	31.66	31.66	31.66
TOTAL INVESTMENT	33.28	32.47	31.66	31.66	31.66
PERSONNEL					
PAY AND ALLOWANCES	292.74	285.60	278.46	278.46	278.46
FOOD	44.69	43.60	42.51	42.51	42.51
TOTAL PERSONNEL	337.43	329.20	320.97	320.97	320.97
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	7.56	7.48	7.29	7.29	7.29
LAND ARMAMENTS	13.01	12.69	12.37	12.37	12.37
G.P. VEHICLES	1.77	1.72	1.68	1.68	1.68
POL VEHICLES	0.91	0.89	0.86	0.86	0.86
MEDICAL CARE	1.97	1.92	1.87	1.87	1.87
TRANSPORTATION	2.71	2.64	2.58	2.58	2.58
PRNTG AND PUBLSHNG	1.20	1.17	1.14	1.14	1.14
TOTAL OP. AND MTC.	29.22	28.51	27.80	27.80	27.80
TOTAL OPERATING	366.65	357.71	348.77	348.77	348.77
TOTAL SYSTEM	399.93	390.18	380.42	380.42	380.42

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS TANK DIV-CUR-I-GP	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	6.62	6.62	6.62	6.62	6.62
ORGANIZATIONAL EQ.	38.80	38.80	38.80	38.80	38.80
SUB-TOTAL	45.42	45.42	45.42	45.42	45.42
TOTAL PROCUREMENT	45.42	45.42	45.42	45.42	45.42
TOTAL INVESTMENT	45.42	45.42	45.42	45.42	45.42
PERSONNEL					
PAY AND ALLOWANCES	394.84	394.84	394.84	394.84	394.84
FOOD	60.28	60.28	60.28	60.28	60.28
TOTAL PERSONNEL	455.12	455.12	455.12	455.12	455.12
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	10.34	10.34	10.34	10.34	10.34
LAND ARMAMENTS	25.69	25.69	25.69	25.69	25.69
G.P. VEHICLES	2.65	2.65	2.65	2.65	2.65
POL VEHICLES	1.55	1.55	1.55	1.55	1.55
MEDICAL CARE	2.65	2.65	2.65	2.65	2.65
TRANSPORTATION	3.65	3.65	3.65	3.65	3.65
PRNTG AND PUBLSHNG	1.61	1.61	1.61	1.61	1.61
TOTAL OP. AND MTC.	48.15	48.15	48.15	48.15	48.15
TOTAL OPERATING	503.27	503.27	503.27	503.27	503.27
TOTAL SYSTEM	548.69	548.69	548.69	548.69	548.69

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Dollar Valuation of

Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS TANK DIV-CUR-I-INT	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	8.98	8.98	8.98	8.98	8.98
ORGANIZATIONAL EQ.	52.68	52.68	52.68	52.68	52.68
SUB-TOTAL	61.66	61.66	61.66	61.66	61.66
TOTAL PROCUREMENT	61.66	61.66	61.66	61.66	61.66
TOTAL INVESTMENT	61.66	61.66	61.66	61.66	61.66
PERSONNEL					
PAY AND ALLOWANCES	536.04	536.04	536.04	536.04	536.04
FOOD	81.83	81.83	81.83	81.83	81.83
TOTAL PERSONNEL	617.87	617.87	617.87	617.87	617.87
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	14.03	14.03	14.03	14.03	14.03
LAND ARMAMENTS	34.88	34.88	34.88	34.88	34.88
G.P. VEHICLES	3.59	3.59	3.59	3.59	3.59
POL VEHICLES	2.11	2.11	2.11	2.11	2.11
MEDICAL CARE	3.60	3.60	3.60	3.60	3.60
TRANSPORTATION	4.96	4.96	4.96	4.96	4.96
PRNTG AND PUBLSHNG	2.19	2.19	2.19	2.19	2.19
TOTAL OP. AND MTC.	65.37	65.37	65.37	65.37	65.37
TOTAL OPERATING	683.24	683.24	683.24	683.24	683.24
TOTAL SYSTEM	744.90	744.90	744.90	744.90	744.90

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Dollar Valuation of
Estimated Expenditures For Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS TANK DIV-CUR-II	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	3.75	3.75	3.75	3.75	3.75
ORGANIZATIONAL EQ.	22.00	22.00	22.00	22.00	22.00
SUB-TOTAL	25.75	25.75	25.75	25.75	25.75
TOTAL PROCUREMENT	25.75	25.75	25.75	25.75	25.75
TOTAL INVESTMENT	25.75	25.75	25.75	25.75	25.75
PERSONNEL					
PAY AND ALLOWANCES	223.84	223.84	223.84	223.84	223.84
FOOD	34.17	34.17	34.17	34.17	34.17
TOTAL PERSONNEL	258.01	258.01	258.01	258.01	258.01
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	5.86	5.86	5.86	5.86	5.86
LAND ARMAMENTS	14.56	14.56	14.56	14.56	14.56
G.P. VEHICLES	1.50	1.50	1.50	1.50	1.50
POL VEHICLES	0.88	0.88	0.88	0.88	0.88
MEDICAL CARE	1.50	1.50	1.50	1.50	1.50
TRANSPORTATION	2.07	2.07	2.07	2.07	2.07
PRNTG AND PUBLSHNG	0.92	0.92	0.92	0.92	0.92
TOTAL OP. AND MTC.	27.30	27.30	27.30	27.30	27.30
TOTAL OPERATING	285.31	285.31	285.31	285.31	285.31
TOTAL SYSTEM	311.06	311.06	311.06	311.06	311.06

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-42. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS AIRBORNE DIV-CUR-I	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	1.47	1.47	1.47	1.47	1.47
ORGANIZATIONAL EQ.	13.47	13.47	13.47	13.47	13.47
SUB-TOTAL	14.94	14.94	14.94	14.94	14.94
TOTAL PROCUREMENT	14.94	14.94	14.94	14.94	14.94
TOTAL INVESTMENT	14.94	14.94	14.94	14.94	14.94
PERSONNEL					
PAY AND ALLOWANCES	137.09	137.09	137.09	137.09	137.09
FOOD	20.93	20.93	20.93	20.93	20.93
TOTAL PERSONNEL	158.02	158.02	158.02	158.02	158.02
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	3.59	3.59	3.59	3.59	3.59
LAND ARMAMENTS	1.85	1.85	1.85	1.85	1.85
G.P. VEHICLES	0.55	0.55	0.55	0.55	0.55
POL VEHICLES	0.14	0.14	0.14	0.14	0.14
MEDICAL CARE	0.92	0.92	0.92	0.92	0.92
TRANSPORTATION	1.27	1.27	1.27	1.27	1.27
PRNTG AND PUBLSHNG	0.56	0.56	0.56	0.56	0.56
TOTAL OP. AND MTC.	8.88	8.88	8.88	8.88	8.88
TOTAL OPERATING	166.90	166.90	166.90	166.90	166.90
TOTAL SYSTEM	181.84	181.84	181.84	181.84	181.84

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Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS AIRBORNE DIV-CUR-II	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	0.19	0.19	0.19	0.19	0.19
ORGANIZATIONAL EQ.	1.72	1.72	1.72	1.72	1.72
SUB-TOTAL	1.91	1.91	1.91	1.91	1.91
TOTAL PROCUREMENT	1.91	1.91	1.91	1.91	1.91
TOTAL INVESTMENT	1.91	1.91	1.91	1.91	1.91
PERSONNEL					
PAY AND ALLOWANCES	17.49	17.49	17.49	17.49	17.49
FOOD	2.67	2.67	2.67	2.67	2.67
TOTAL PERSONNEL	20.16	20.16	20.16	20.16	20.16
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	0.46	0.46	0.46	0.46	0.46
LAND ARMAMENTS	0.24	0.24	0.24	0.24	0.24
G.P. VEHICLES	0.07	0.07	0.07	0.07	0.07
POL VEHICLES	0.02	0.02	0.02	0.02	0.02
MEDICAL CARE	0.12	0.12	0.12	0.12	0.12
TRANSPORTATION	0.16	0.16	0.16	0.16	0.16
PRNTG AND PUBLSHNG	0.07	0.07	0.07	0.07	0.07
TOTAL OP. AND MTC.	1.13	1.13	1.13	1.13	1.13
TOTAL OPERATING	21.30	21.30	21.30	21.30	21.30
TOTAL SYSTEM	23.20	23.20	23.20	23.20	23.20

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS CORPS	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	8.38	8.38	7.55	7.55	7.55
ORGANIZATIONAL EQ.	25.61	25.61	23.05	23.05	23.05
SUB-TOTAL	34.00	34.00	30.60	30.60	30.60
TOTAL PROCUREMENT	34.00	34.00	30.60	30.60	30.60
TOTAL INVESTMENT	34.00	34.00	30.60	30.60	30.60
PERSONNEL					
PAY AND ALLOWANCES	260.61	260.61	234.55	234.55	234.55
FOOD	39.78	39.78	35.81	35.81	35.81
TOTAL PERSONNEL	300.39	300.39	270.36	270.36	270.36
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	6.82	6.82	6.14	6.14	6.14
LAND ARMAMENTS	12.82	12.82	11.54	11.54	11.54
G.P. VEHICLES	1.92	1.92	1.73	1.73	1.73
POL VEHICLES	1.19	1.19	1.07	1.07	1.07
MEDICAL CARE	1.75	1.75	1.58	1.58	1.58
TRANSPORTATION	2.41	2.41	2.17	2.17	2.17
PRNTG AND PUBLSHNG	1.07	1.07	0.96	0.96	0.96
TOTAL OP. AND MTC.	27.98	27.98	25.18	25.18	25.18
TOTAL OPERATING	328.38	328.38	295.54	295.54	295.54
TOTAL SYSTEM	362.37	362.37	326.14	326.14	326.14

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS CMBD ARMS ARMY-A	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	6.55	5.24	3.93	3.93	3.93
ORGANIZATIONAL EQ.	20.00	16.00	12.00	12.00	12.00
SUB-TOTAL	26.54	21.24	15.93	15.93	15.93
TOTAL PROCUREMENT	26.54	21.24	15.93	15.93	15.93
TOTAL INVESTMENT	26.54	21.24	15.93	15.93	15.93
PERSONNEL					
PAY AND ALLOWANCES	203.49	162.79	122.09	122.09	122.09
FOOD	31.06	24.85	18.64	18.64	18.64
TOTAL PERSONNEL	234.55	187.64	140.73	140.73	140.73
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	5.33	4.26	3.20	3.20	3.20
LAND ARMAMENTS	10.01	8.01	6.01	6.01	6.01
G.P. VEHICLES	1.50	1.20	0.90	0.90	0.90
POL VEHICLES	0.93	0.74	0.56	0.56	0.56
MEDICAL CARE	1.37	1.09	0.82	0.82	0.82
TRANSPORTATION	1.88	1.51	1.13	1.13	1.13
PRNTG AND PUBLSHNG	0.83	0.67	0.50	0.50	0.50
TOTAL OP. AND MTC.	21.85	17.48	13.11	13.11	13.11
TOTAL OPERATING	256.40	205.12	153.84	153.84	153.84
TOTAL SYSTEM	282.95	226.36	169.77	169.77	169.77

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS CMBD ARMS ARMY-8	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	12.89	12.89	12.89	12.89	12.89
ORGANIZATIONAL EQ.	39.36	39.36	39.36	39.36	39.36
SUB-TOTAL	52.25	52.25	52.25	52.25	52.25
TOTAL PROCUREMENT	52.25	52.25	52.25	52.25	52.25
TOTAL INVESTMENT	52.25	52.25	52.25	52.25	52.25
PERSONNEL					
PAY AND ALLOWANCES	400.55	400.55	400.55	400.55	400.55
FOOD	61.15	61.15	61.15	61.15	61.15
TOTAL PERSONNEL	461.70	461.70	461.70	461.70	461.70
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	10.49	10.49	10.49	10.49	10.49
LAND ARMAMENTS	19.71	19.71	19.71	19.71	19.71
G.P. VEHICLES	2.95	2.95	2.95	2.95	2.95
POL VEHICLES	1.82	1.82	1.82	1.82	1.82
MEDICAL CARE	2.69	2.69	2.69	2.69	2.69
TRANSPORTATION	3.71	3.71	3.71	3.71	3.71
PRNTG AND PUBLSHNG	1.64	1.64	1.64	1.64	1.64
TOTAL OP. AND MTC.	43.01	43.01	43.01	43.01	43.01
TOTAL OPERATING	504.71	504.71	504.71	504.71	504.71
TOTAL SYSTEM	556.96	556.96	556.96	556.96	556.96

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-42. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS TANK ARMY-A	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	7.32	5.23	5.23	5.23	5.23
ORGANIZATIONAL EQ.	25.54	18.24	18.24	18.24	18.24
SUB-TOTAL	32.86	23.47	23.47	23.47	23.47
TOTAL PROCUREMENT	32.86	23.47	23.47	23.47	23.47
TOTAL INVESTMENT	32.86	23.47	23.47	23.47	23.47
PERSONNEL					
PAY AND ALLOWANCES	259.90	185.64	185.64	185.64	185.64
FOOD	39.68	28.34	28.34	28.34	28.34
TOTAL PERSONNEL	299.57	213.98	213.98	213.98	213.98
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	6.80	4.86	4.86	4.86	4.86
LAND ARMAMENTS	13.20	9.43	9.43	9.43	9.43
G.P. VEHICLES	1.74	1.24	1.24	1.24	1.24
POL VEHICLES	1.08	0.77	0.77	0.77	0.77
MEDICAL CARE	1.75	1.25	1.25	1.25	1.25
TRANSPORTATION	2.41	1.72	1.72	1.72	1.72
PRNTG AND PUBLSHNG	1.06	0.76	0.76	0.76	0.76
TOTAL OP. AND MTC.	28.04	20.03	20.03	20.03	20.03
TOTAL OPERATING	327.61	234.01	234.01	234.01	234.01
TOTAL SYSTEM	360.47	257.48	257.48	257.48	257.48

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-42. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS TANK ARMY-8	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	-	1.71	0.85	0.85	0.85
ORGANIZATIONAL EQ.	-	5.96	2.98	2.98	2.98
SUB-TOTAL	-	7.67	3.84	3.84	3.84
TOTAL PROCUREMENT	-	7.67	3.84	3.84	3.84
TOTAL INVESTMENT	-	7.67	3.84	3.84	3.84
PERSONNEL					
PAY AND ALLOWANCES	-	60.69	30.34	30.34	30.34
FOOD	-	9.26	4.63	4.63	4.63
TOTAL PERSONNEL	-	69.95	34.98	34.98	34.98
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	-	1.59	0.79	0.79	0.79
LAND ARMAMENTS	-	3.08	1.54	1.54	1.54
G.P. VEHICLES	-	0.41	0.20	0.20	0.20
POL VEHICLES	-	0.25	0.13	0.13	0.13
MEDICAL CARE	-	0.41	0.20	0.20	0.20
TRANSPORTATION	-	0.56	0.28	0.28	0.28
PRNTG AND PUBLSHNG	-	0.25	0.12	0.12	0.12
TOTAL OP. AND MTC.	-	6.55	3.27	3.27	3.27
TOTAL OPERATING	-	76.50	38.25	38.25	38.25
TOTAL SYSTEM	-	84.17	42.09	42.09	42.09

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NOTE: Includes only those expenditures allocated to specific Ground Troops units. Additional expenditures which could not be so allocated are shown on page A-42. These expenditures are for all units of this type in the O/B.

Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS MD/GF HQS, ETC.	1962	1963	1964	1965	1966
PROCUREMENT					
G.P. VEHICLES	16.94	16.94	16.94	16.94	16.94
ORGANIZATIONAL EQ.	103.50	103.50	103.50	103.50	103.50
SUB-TOTAL	120.44	120.44	120.44	120.44	120.44
TOTAL PROCUREMENT	120.44	120.44	120.44	120.44	120.44
TOTAL INVESTMENT	120.44	120.44	120.44	120.44	120.44
PERSONNEL					
PAY AND ALLOWANCES	1053.15	1053.15	1053.15	1053.15	1053.15
FOOD	160.77	160.77	160.77	160.77	160.77
TOTAL PERSONNEL	1213.92	1213.92	1213.92	1213.92	1213.92
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	27.57	27.57	27.57	27.57	27.57
LAND ARMAMENTS	15.88	15.88	15.88	15.88	15.88
G.P. VEHICLES	6.35	6.35	6.35	6.35	6.35
POL VEHICLES	1.96	1.96	1.96	1.96	1.96
MEDICAL CARE	7.08	7.08	7.08	7.08	7.08
TRANSPORTATION	9.75	9.75	9.75	9.75	9.75
PRNTG AND PUBLSHNG	4.31	4.31	4.31	4.31	4.31
TOTAL OP. AND MTC.	72.90	72.90	72.90	72.90	72.90
TOTAL OPERATING	1286.82	1286.82	1286.82	1286.82	1286.82
TOTAL SYSTEM	1407.26	1407.26	1407.26	1407.26	1407.26

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS NON-UNIT RELATED	1962	1963	1964	1965	1966
PROCUREMENT					
LAND ARMS	741.54	828.83	818.61	784.60	742.23
AMMUNITION	262.75	270.66	283.85	321.50	332.28
AIRCRAFT	38.68	26.72	26.50	17.39	34.66
MISSILE SYSTEMS	215.69	147.74	159.26	302.59	386.29
ELECTRONIC EQ.	262.10	284.00	339.30	378.90	342.40
SUB-TOTAL	1520.76	1557.94	1627.52	1804.98	1837.86
TOTAL PROCUREMENT	1520.76	1557.94	1627.52	1804.98	1837.86
FACILITIES					
MISSILE FACILITIES	11.10	3.33	0.62	-	-
TOTAL FACILITIES	11.10	3.33	0.62	-	-
TOTAL INVESTMENT	1531.86	1561.27	1628.14	1804.98	1837.86
OPERATIONS AND MTC.					
MISSILE SYSTEMS	57.26	65.05	72.32	68.56	71.71
ELECTRONIC EQUIPMENT	107.90	124.50	149.40	171.30	201.50
FIXED COMMO LEASING	14.87	15.35	15.71	16.18	16.66
TOTAL OP. AND MTC.	180.03	204.90	237.93	256.04	289.87
TOTAL OPERATING	180.03	204.90	237.93	256.04	289.87
TOTAL SYSTEM	1711.89	1766.17	1866.07	2061.02	2127.73

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Dollar Valuation of
Estimated Expenditures for Soviet Ground Troops
1962-66
(High)

Millions of Dollars

GROUND TROOPS	1962	1963	1964	1965	1966
PROCUREMENT					
LAND ARMS	741.54	828.83	818.61	784.60	742.23
AMMUNITION	262.75	270.66	283.85	321.50	332.28
AIRCRAFT	38.68	26.72	26.50	17.39	34.66
MISSILE SYSTEMS	215.69	147.74	159.26	302.59	386.29
ELECTRONIC EQ.	262.10	284.00	339.30	378.90	342.40
SUB-TOTAL	1520.76	1557.94	1627.52	1804.98	1837.86
G.P. VEHICLES	101.69	100.27	97.64	97.64	97.64
ORGANIZATIONAL EQ.	525.01	521.45	514.26	514.26	514.26
SUB-TOTAL	626.70	621.72	611.90	611.90	611.90
TOTAL PROCUREMENT	2147.46	2179.66	2239.42	2416.88	2449.75
FACILITIES					
MISSILE FACILITIES	11.10	3.33	0.62	-	-
TOTAL FACILITIES	11.10	3.33	0.62	-	-
TOTAL INVESTMENT	2158.56	2182.99	2240.04	2416.88	2449.75
PERSONNEL					
PAY AND ALLOWANCES	5342.33	5306.09	5232.91	5232.91	5232.91
FOOD	815.57	810.03	798.86	798.86	798.86
TOTAL PERSONNEL	6157.89	6116.12	6031.77	6031.77	6031.77
OPERATIONS AND MTC.					
PERSONNEL FACILITIES	139.85	138.91	136.99	136.99	136.99
LAND ARMAMENTS	231.28	229.39	225.63	225.63	225.63
MISSILE SYSTEMS	57.26	65.05	72.92	68.56	71.71
ELECTRONIC EQUIPMENT	107.90	124.50	149.40	171.30	201.50
FIXED COMMO LEASING	14.87	15.35	15.71	16.18	16.66
G.P. VEHICLES	34.02	33.74	33.19	33.19	33.19
POL VEHICLES	17.43	17.24	16.89	16.89	16.89
MEDICAL CARE	35.92	35.67	35.18	35.18	35.18
TRANSPORTATION	49.45	49.12	48.44	48.44	48.44
PRNTG AND PUBLSHNG	21.85	21.70	21.40	21.40	21.40
TOTAL OP. AND MTC.	709.84	730.67	755.65	773.76	807.59
TOTAL OPERATING	6867.73	6846.80	6787.41	6805.52	6839.36
TOTAL SYSTEM	9026.29	9029.79	9027.45	9222.40	9289.11

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Procurement of Land Armaments for the
Soviet Ground Troops
1962-66
(High)

NO=units procured
(except as noted)
CST=cost in millions of dollars

			62	63	64	65	66
			--	--	--	--	--
TANKS PT-76		NO	490	487	365	121	-
		CST	27.1	26.9	20.2	6.7	-
T-55	M58	NO	2670	2669	2668	2669	2001
		CST	322.3	322.1	322.0	322.1	241.5
T-62	M60	NO	1170	1658	1657	1657	1243
		CST	147.1	208.4	208.3	208.3	156.2
T-67		NO	-	-	-	-	858
		CST	-	-	-	-	116.5
	SUB-TOTAL		496.4	557.5	550.5	537.1	514.3
APC BTR-50P	M54	NO	1997	1997	1500	500	-
		CST	90.5	90.5	68.0	22.6	-
BTR-60P 8X8	M61	NO	2297	2299	2302	2348	2360
		CST	64.8	64.8	64.9	66.2	66.6
BRDM AMPH	M59	NO	2117	2107	2094	2110	1583
		CST	42.6	42.4	42.1	42.4	31.8
	SUB-TOTAL		197.8	197.6	175.0	131.3	98.4
ASLT GN ASU-85	M62	NO	64	95	71	24	-
		CST	2.8	4.1	3.1	1.0	-
	SUB-TOTAL		2.8	4.1	3.1	1.0	-
FLD ART 122/GH	M62	NO	255	731	1019	1019	1018
		CST	7.9	22.5	31.4	31.4	31.4
	SUB-TOTAL		7.9	22.5	31.4	31.4	31.4

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Procurement of Land Armaments for the
Soviet Ground Troops
1962-66
(High)

NO=units procured
(except as noted)
CST=cost in millions of dollars

		62	63	64	65	66
AAA 23MM ZU-2	NO	-	118	335	474	474
	CST	-	3.4	9.6	13.7	13.7
23MM ZSU-4	NO	-	-	-	122	328
	CST	-	-	-	8.5	23.0
TWIN 57MM M55	NO	-	-	-	-	-
	CST	-	-	-	-	-
SUB-TOTAL		-	3.4	9.6	22.2	36.6
RL 140MM 8-RND TWD	NO	70	69	-	-	-
	CST	0.1	0.1	-	-	-
140MM 16-RND TWD	NO	-	-	-	46	46
	CST	-	-	-	0.2	0.2
140MM 17-RND/GAZ	NO	320	106	-	-	-
	CST	2.3	0.8	-	-	-
FROG-7 8X8	NO	-	-	20	60	60
	CST	-	-	3.5	10.5	10.5
NEW WHLD 120MM	NO	-	-	52	149	208
	CST	-	-	1.3	3.7	5.2
SUB-TOTAL		2.4	0.9	4.8	14.4	15.9
SMARMS 9MM MCH PST	NO	50	-	-	-	-
(NO = 1000 units)	CST	3.1	-	-	-	-
7.62 LMG RPK M61	NO	758	754	750	750	716
(NO = 10 units)	CST	0.8	0.8	0.8	0.8	0.7
7.62 SMG AKM	NO	250	343	340	340	318
(NO = 1000 units)	CST	30.0	41.2	40.8	40.8	38.2

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Procurement of Land Armaments for the
Soviet Ground Troops
1962-66
(High)

NO=units procured
(except as noted)
CST=cost in millions of dollars

		62	63	64	65	66
		--	--	--	--	--
7.62PK M-64 (NO = 10 units)	NO	178	247	245	245	242
	CST	0.2	0.3	0.3	0.3	0.2
	SUB-TOTAL	34.0	42.2	41.8	41.8	39.1
RCLS RPG-7	NO	2192	6164	8898	8898	6674
	CST	0.2	0.6	0.9	0.9	0.7
	SUB-TOTAL	0.2	0.6	0.9	0.9	0.7
PR MVRS M-54(AT-S)	NO	-	-	-	-	-
	CST	-	-	-	-	-
AT-S-59	NO	-	-	43	124	164
	CST	-	-	1.6	4.5	5.9
	SUB-TOTAL	-	-	1.6	4.5	5.9
	TOTAL COST	741.5	828.8	818.6	784.6	742.2

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Procurement of Ammunition for the
Soviet Ground Troops
1962-66
(High)

NO=short tons procured
(except where noted)
CST=cost in millions of dollars

		62	63	64	65	66
SMALL ARMS	NO	7113	7408	7202	6836	6562
	CST	19.6	20.4	19.8	18.8	18.0
ARTILLERY	NO	61234	76825	85656	89118	91032
	CST	147.0	184.4	205.6	213.9	218.5
MORTARS	NO	2321	2321	2321	2321	2321
	CST	5.6	5.6	5.6	5.6	5.6
ROCKETS	NO	20120	10540	6500	13030	15730
	CST	64.2	33.6	20.7	41.6	50.2
RECOILLESS	NO	121	339	489	489	367
	CST	0.6	1.7	2.4	2.4	1.8
GRENADES	NO	1215	1215	1215	1215	1215
	CST	6.0	6.0	6.0	6.0	6.0
	SUB-TOTAL	242.9	251.6	260.1	288.2	300.1
FROGS	NO	1640	1640	2120	3080	3080
(NO=warheads procured)	CST	19.9	19.1	23.8	33.3	32.2
	SUB-TOTAL	19.9	19.1	23.8	33.3	32.2
	TOTAL COST	262.7	270.7	283.8	321.5	332.3

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Soviet Ground Troops, 1962-66
Order of Battle and Manpower
(High)

M=manpower in thousands
U=number of units
F=manning factor

		1962	1963	1964	1965	1966
MTZ RIFLE DIV-CUR-I-GF	M	114.0	114.0	114.0	114.0	114.0
	U	12	12	12	12	12
	F	9500	9500	9500	9500	9500
MTZ RIFLE DIV-CUR-I-INT	M	182.7	182.7	191.4	191.4	191.4
	U	21	21	22	22	22
	F	8700	8700	8700	8700	8700
MTZ RIFLE DIV-CUR-II	M	141.0	148.1	148.1	148.1	148.1
	U	20	21	21	21	21
	F	7050	7050	7050	7050	7050
MTZ RIFLE DIV-CUR-III	M	82.0	80.0	78.0	78.0	78.0
	U	41	40	39	39	39
	F	2000	2000	2000	2000	2000
TANK DIV-CUR-I-GF	M	110.6	110.6	110.6	110.6	110.6
	U	14	14	14	14	14
	F	7900	7900	7900	7900	7900
TANK DIV-CUR-I-INT	M	150.2	150.2	150.2	150.2	150.2
	U	21	21	21	21	21
	F	7150	7150	7150	7150	7150
TANK DIV-CUR-II	M	62.7	62.7	62.7	62.7	62.7
	U	11	11	11	11	11
	F	5700	5700	5700	5700	5700
AIRBORNE DIV-CUR-I	M	38.4	38.4	38.4	38.4	38.4
	U	6	6	6	6	6
	F	6400	6400	6400	6400	6400
AIRBORNE DIV-CUR-II	M	4.9	4.9	4.9	4.9	4.9
	U	1	1	1	1	1
	F	4900	4900	4900	4900	4900
CORPS	M	73.0	73.0	65.7	65.7	65.7
	U	10	10	9	9	9
	F	7300	7300	7300	7300	7300
CMBD ARMS ARMY-A	M	57.0	45.6	34.2	34.2	34.2
	U	5	4	3	3	3
	F	11400	11400	11400	11400	11400

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Soviet Ground Troops, 1962-66
Order of Battle and Manpower
(High)

M=manpower in thousands
U=number of units
F=manning factor

		1962	1963	1964	1965	1966
CMBD ARMS ARMY-B	M	112.2	112.2	112.2	112.2	112.2
	U	11	11	11	11	11
	F	10200	10200	10200	10200	10200
TANK ARMY-A	M	72.8	52.0	52.0	52.0	52.0
	U	7	5	5	5	5
	F	10400	10400	10400	10400	10400
TANK ARMY-B	M	-	17.0	8.5	8.5	8.5
	U	-	2	1	1	1
	F	-	8500	8500	8500	8500
MD/GF HQS, ETC.	M	295.0	295.0	295.0	295.0	295.0
	U	1	1	1	1	1
	F	295000	295000	295000	295000	295000
GROUND TROOPS ELEMENT	M	1496.4	1486.3	1465.8	1465.8	1465.8

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Appendix B

Account Structure and Costing Methodology

This appendix defines the accounts and explains the methodologies used for deriving the expenditure estimates presented in this report. The order of presentation is the same as the outline of the accounts presented in the computer listing of Ground Troops expenditures included in Appendix A.

Procurement

I. Major Items of Equipment

Included are expenditures for all manufactured hard good equipment purchased for Ground Troops use, including initial spares and replacement purchases of complete, finished items. Specifically excluded are replacement spare parts -- included under Operation and Maintenance, below -- and development prototypes. There is very little direct evidence available on the actual production of equipment for support of the Soviet Ground Troops. It is necessary, therefore, to supplement the scattered data concerning actual production with estimates of equipment requirements necessary to maintain the T/Es as contained in NIPP-66. The results are expenditure estimates for procurement based on requirements. These results are tested for consistency with historical data and the small amount of actual production evidence which is available. In cases where the requirements estimates appear to be clearly in conflict with actual production information, adjustments are made in the requirements approach. In the case of some items where the Ground Troops are not the only consumers of an item and where there are exports outside the USSR, we have taken these factors into consideration.

A. Land Armaments

1. Account Definition

Specifically included in this account are outlays for tanks, assault guns, armored personnel carriers, artillery, small arms, rocket launchers (including FROG's), amphibious vehicles and armored prime movers.

2. Methodology

Estimating outlays for procurement of land armaments provides an excellent example of the general problem faced in attempting to reliably account for equipment procurement. First, an all-source check for evidence on actual production is made.

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This evidence usually includes [redacted] attaché observations, defector reports and other intelligence sources. However, the available information is very fragmentary at best. Therefore, requirements to equip the Ground Troops in accordance with the order of battle and T/Es specified in NIPP-66 are calculated. To the results, a factor -- generally 10% to 20% -- is added to allow for attrition, pipeline, etc., if applicable. Inventory at the beginning of the period under consideration, if any, is then subtracted to obtain a net requirement. The resulting net requirement is then phased over a period of years which is determined by an examination of the historical information on actual Soviet production of the type of item involved. Thus, the established production time span allows for exports and the requirements of other Soviet military consumers, if any.

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The prices used for each item of equipment are estimates of what it would cost to produce the given item in the US using Soviet specifications and production rates. They are based on studies made by US Army arsenals and other US manufacturers who utilized estimated characteristics, actual Soviet detailed specifications, and on occasion a sample piece of the Soviet equipment as a basis for their calculations. Two additional points should be noted about the dollar prices used for estimating expenditures: first, the prices attempt to reflect the rather pronounced differences in US and Soviet design philosophy -- e.g., the Soviet T-55 is a much simpler and austere tank than its US counterpart; second, typically there are much larger and longer production runs for the Soviet items which introduce economies of scale that the US does not experience.

The procedure described is applied to each item of equipment appearing in the T/Es. As can be seen, each change in the O/Bs and/or the T/Es results in a change in total requirements and the resulting procurement expenditure estimates.

B. Ammunition

1. Account Definition

This account includes all expenditures for conventional and free rocket ammunition.

2. Methodology

The physical quantity of ammunition procured for Ground Troops is estimated in two separate stages. First, the basic reserve requirement of ammunition for all newly-procured weapons is calculated, based on an estimated number of units of fire for each weapon. Second, an estimate of the additional ammunition required for training purposes and rotational replacement of older ammunition is computed.

The dollar price of ammunition is calculated on a metric ton basis, with the metallic and explosive content of the round and the associated fabrication costs considered. The tonnage figures are then multiplied by the cost per metric ton.

C. Aircraft

1. Account Definition

This account includes expenditures for the procurement of helicopters that are under the administrative control of Military Transport Aviation, but which are believed to be attached to and under the operational control of the unit commanders in the Soviet Motorized Rifle and Tank Divisions.

2. Methodology

The number of light helicopters (Hare and Hound) assigned to the Soviet Ground Troops is calculated as a percentage of the total Soviet deployment -- both military and civilian. This percentage is then applied to the value series associated with independently derived total production estimates for these aircraft.

The dollar procurement cost of the helicopters is based on US prices of aircraft system components -- e.g., airframe, engines, etc. -- and the use of learning curves which reflect US cost experience.

D. Missile Systems

1. Account Definition

This account covers all outlays for tactical missile systems, including: ground guidance and all associated special and standard support equipment; required missiles-on-launchers; training missiles; missiles for re-fire capability; and missiles in maintenance float.

2. Methodology

Total system production requirements for each specific system are derived directly from O/B data -- launcher deployment -- and estimates of other requirements -- e.g., training, re-fire, etc. The dollar valuation of the production estimates so derived is largely based on analogous US system data. US data on costs for counterpart systems are adjusted in accordance with the observed or estimated characteristics of the Soviet tactical missile systems and their operational configuration, organization, and equipment. Missiles and launcher sets are valued separately and learning curves are used as appropriate.

E. Ground Electronics

1. Account Definition

This account, which includes only discrete electronic equipment and not those items that are considered an integral part of a weapons system, is divided into two main categories: communications equipment and noncommunications equipment. Included in communications equipment are tactical (mobile) radio systems and the electronic elements of fixed communications facilities. Noncommunications equipment includes ground radar, electronic countermeasures equipment, ground infrared equipment, navigational aids, proximity fuzes, and electronic computers.

2. Methodology

Estimates of the production requirements for the items of electronic equipment considered for the Soviet Ground Troops are based on detailed O/B and T/E statements, and estimated replacement factors. Dollar valuations of the production are based on costing studies of the actual Soviet equipment, detailed specifications of equipment, or estimated equipment characteristics.

II. Other Equipment

A. Organizational Equipment

1. Account Definition

This account is in essence a residual account that is meant to include expenditures for all supplies and equipment not specified elsewhere; conceptually included are items which range from typewriters and tent pegs up to special purpose vehicles and heavy engineering equipment.

2. Methodology

Because there is very little relevant direct Soviet data available for this account, expenditures are estimated entirely on an analog basis. US and NATO sources were reviewed to determine purchases per man for conceptually-comparable accounts -- e.g., "other equipment and supplies". The results of performing this exercise for the military establishments of several countries suggested that an expenditure of $350 per man per year was not unreasonable.

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B. General Purpose Vehicles

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1. Account Definition

Included are all outlays for replacement of worn out, damaged, and obsolete trucks, jeeps, and ambulances.

2. Methodology

An expenditure factor for annual replacement of general purpose vehicles is obtained for each NIPP-66 Category I and Type A organizational unit by multiplying the vehicle inventory by an estimate of the average miles driven per year per vehicle. The product is then divided by an estimate of vehicle life (in mileage terms) to obtain an estimate of the number of vehicles to be replaced. This estimate is then multiplied by a weighted average vehicle price to obtain a total annual expenditure for the unit. This factor is then divided by the manning factor for the unit under consideration to obtain a per man factor, which is applied to the counterpart Category II and III or Type B unit -- e.g., the per man factor derived for a Category I Motorized Rifle Division is applied to the Category II and III Motorized Rifle Divisions. Throughout the process just described, separate calculations are made for three major groups of vehicles -- light, medium, and heavy.

Personnel

I. Pay and Allowances

A. Account Definition

This account includes pay and allowances for military personnel in the Ground Troops.

B. Methodology

An average pay and allowance factor is computed for total US Army military personnel, and this factor is then applied directly to the Soviet Ground Troops.

II. Food

A. Account Definition

This account includes the outlays for the basic food ration for military personnel on active duty with the Ground Troops.

B. Methodology

As in the case of pay and allowances, this account is estimated by strict US analogy, reduced to a per man basis and applied to the Soviet Ground Troops.

Operation and Maintenance

Included are recurring expenditures associated with maintenance, repair, and the general establishment of organizational continuity of the Ground Troops and its individual components. Specifically excluded are all direct personnel costs -- military and civilian. For most of the Operation and Maintenance accounts, expenditures were calculated for the NIPP-66 Category I and Type A units. These organizational factors were then divided by manpower to obtain per man factors which could then be applied to Category II and III and Type B organizational units.

I. Personnel Facilities

A. Account Definition

Included are estimated outlays for maintaining existing Soviet military personnel facilities -- barracks, mess halls, etc. -- in the Ground Troops.

B. Methodology

The annual cost of maintaining facilities is estimated to be five percent of the total inventory replacement value. This factor is believed to be reasonably consistent with the age and condition of such facilities.

II. Maintenance of Land Armaments

A. Account Definition

This account covers all Soviet outlays for operating spare parts for land armaments.

B. Methodology

To estimate these outlays, the major items of equipment for the Ground Troops are grouped into three classes to account for similarity of maintenance cost experience within each group but dissimilarities between the groups. The groups are: 1) combat vehicles; 2) other land armaments; and 3) miscellaneous. The annual maintenance cost factors derived are based directly on Soviet equipment usage practices and policies where possible, and on analog maintenance cost experience where necessary. These cost factors, established for individual items of equipment and/or similar types of equipment, are then applied to the corresponding inventories -- or valuations thereof -- for each particular organizational unit in order to obtain an estimate of annual unit expenditures for this activity.

1. For all combat vehicles -- including tracked artillery prime movers -- maintenance costs are calculated by applying an estimated cost per mile factor to an estimated average annual mileage of each vehicle. Factors derived in this manner have been based on several independent intelligence sources and have been corroborated by US and NATO analogies. In general, the maintenance costs for this category of equipment on an annual basis are approximately two percent of the inventory value of the particular item under consideration, and where adequate intelligence is not available, this factor is applied to establish annual expenditures.

2. The second group, other land armaments, includes all other weapons in the Ground Troops that are not self-propelled. The maintenance factor for this group is expressed as a percentage of acquisition cost. In this case, a five percent NATO expenditure planning factor for maintenance of this type of equipment for full-time utilization has been adjusted to reflect Soviet usage practices. The usage rate estimated for combat vehicles of one-third full-time use was applied to make the adjustment. The adjusted factor is then applied to the inventory valuation of these items for each relevant organizational unit.

3. The final category, miscellaneous, is residual and includes all those specified T/E items of equipment not definitionally included in the other two categories. It is largely made up of special-purpose construction and engineering equipment and machinery, though numerous other items are included. The annual maintenance cost factor for this classification is ten percent of the inventory value based on acquisition cost. On the basis of information regarding Soviet military construction activities, this factor has not been adjusted downward but directly applied to the inventory valuations of such items in each of the organizational units.

An alternative method for estimating expenditures for equipment in groups 2. and 3. was developed by DIA. It is based on estimated man-hours per year spent on armament repair and a factor derived from US Army experience of spare-parts costs per labor hour. The results obtained by applying this methodology are almost identical to those presented in this report which are the result of applying the methodology described in 2. and 3., above.

III. POL and O&M Expenditures for Aircraft

A. Account Definition

This account includes outlays for all POL products and operating spare parts for Ground Troops helicopters.

B. Methodology

POL and O&M expenditures for helicopters assigned to the Soviet Ground Troops are based on US costs per flying hour and estimates of annual Soviet flying hours. In the ADP expenditure listings in Appendix A, the expenditures for this account have been combined with those for maintenance of land armaments, because of the negligible amount of expenditures involved.

IV. Missile Systems

A. Account Definition

This account covers O&M costs for tactical guided missiles and their associated launcher set equipment.

B. Methodology

Total O&M expenditures for a given system are estimated as a percentage of total investment in the program. These expenditures are then reduced to an annual expenditure factor per launcher that is applied to the O/B data. The percentage factors are based on US experience for analogous systems.

V. Electronic Equipment

A. Account Definition

This account includes only O&M outlays for discrete electronic equipment and not for those items that are considered integral parts of weapon systems.

B. Methodology

O&M expenditures for electronic equipment employed by the Ground Troops are developed through the use of US analogies. Percentage factors varying from 5% to 15%, depending on the type of equipment, are applied to the values of inventory of each type of equipment to compute annual expenditures.

VI. Fixed Communications Leasing

A. Account Definition

This account includes outlays by the military for leasing fixed communications facilities from the Ministry of Communications, in support of the Ground Troops.

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B. Methodology

The cost of leasing fixed communications facilities is derived by estimating the number of channel-kilometers of telephone and telegraph lines leased for use in support of the Ground Troops. Total expenditures are then developed by applying US rates for comparable communications facilities.

VII. General Purpose Vehicles

A. Account Definition

This account covers all outlays for operating spare parts for general purpose vehicles.

B. Methodology

Annual maintenance costs are determined for each class of general purpose vehicles as defined in NIPP-66 -- that is, light trucks and ambulances; medium trucks; and heavy trucks. Costs are developed by applying estimated average costs per mile of operation to corresponding estimates of average annual mileages for the vehicles in each of the three groups.

VIII. POL - Vehicles

A. Account Definition

Included are all outlays for the consumption of POL products by both combat and general purpose vehicles in the Ground Troops.

B. Methodology

The basic data used to derive expenditure factors for this account are: 1) estimated POL consumption rates for all Soviet vehicles; 2) estimated average annual mileages for these vehicles (same factors as used for computing spares factors); 3) internal Soviet POL product prices; and 4) the vehicle inventory of each of the organizational units involved. A weighted average ruble expenditure for each vehicle model is first determined. Total expenditures for each organizational unit are then derived and finally translated into dollar equivalent outlays by the application of appropriate ruble-dollar ratios.

1. Combat Vehicles -- POL consumption rates are based on normal operating conditions and are then adjusted to account for abnormal weather and terrain, towed loads, technical needs, and wastage. The rates for each vehicle model are then multiplied by the corresponding distance traveled, yielding total gasoline or diesel fuel expended.

Other POL products are estimated as a percentage of the particular fuel consumed. Total POL consumption for each vehicle is thus determined. Soviet prices for petroleum, oil, and lubricants are then applied to obtain POL costs per vehicle. These individual vehicle POL costs are aggregated to yield total unit outlays in rubles, which are then translated into dollar equivalents through the use of a ruble-dollar ratio.

2. Other Vehicles -- In order to determine the POL requirements for all other vehicles, it was necessary to compute weighted average costs of POL for each group of other vehicles listed in NIPP-66. These weighted average factors, derived in a manner similar to that used for combat vehicles, are then applied to the tables of equipment of the organizational units, yielding total unit outlays for POL consumption for these vehicles.

IX. Medical Care

A. Account Definition

This account includes only the outlays associated with medical equipment and supplies.

B. Methodology

The basis for the estimate of outlays for medical supplies for Soviet Ground Troops is US analog data, which is adjusted to reflect the qualitative and quantitative differences in the level of medical care provided by the two forces.

X. Transportation

A. Account Definition

Included are all outlays for the rail movement of goods and personnel required to support Soviet Ground Troops operations. The scope of this account specifically excludes the following: 1) transportation charges included in the procurement price of equipment and supplies; 2) charges paid out of personal funds; and 3) charges that could be imputed for the transportation function when it is performed by the Ground Troops -- e.g., truck movement of goods and personnel by transportation units in the Ground Troops.

B. Methodology

Estimates of the magnitude of ton-kilometers and passenger-kilometers associated with movements of military materiel and personnel have been made on a Ministry of Defense wide level. Transportation

rates appropriate for each class of goods and passengers have been applied and the results reduced to an annual per man factor which is then applied to the Ground Troops.

XI. Printing and Publishing

A. Account Definition

Included are all expenditure outlays for printing and publishing such items as military manuals and texts.

B. Methodology

Although it is known that a considerable number of manuals, handbooks, pamphlets, etc. are published by the Ministry of Defense Publishing House for distribution to Ground Troops, little direct intelligence information on the financial aspect of this activity is available. Consequently, analogous US costs are the basis of a per man factor that is applied to the Soviet Ground Troops.

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Appendix C

Comparability Adjustments to US Army (Program III) Expenditure (TOA) Data

Two types of adjustments to the US Army (Program III) expenditure data have been made in order to approximate comparability with the Soviet Ground Troops expenditure data. First, in order to achieve as much balance in accounting concepts as possible, all expenditures for civilian personnel have been deleted from the US Army (Program III) expenditure data. Second, because the organizational scope of the Soviet Ground Troops -- as used throughout this study -- is considerably broader than that of US Army (Program III), an attempt has been made to identify those US Army functions in Program VII that would be carried out by the Ground Troops Element in the Soviet military establishment and add the US expenditures* for these functions to the US Army (Program III) expenditure data.

Data for the US are based, for the most part, on budgetary information contained in the US Budget Appendix, and other documents such as the Department of the Army FY 1962-74 Force Structure and Financial Program(S). Where estimates had to be made, they were made in collaboration with OSD(SA) personnel and are believed to be accurate in reflecting the proper magnitude. Because average wages for various categories of civilian personnel had to be used for computing the civilian personnel deletion adjustment, some error may have been introduced, but the error, if any, is believed to be minor.

The adjustments to the expenditure data for the US Army (Program III) that were required because of the inclusion in the Soviet Ground Troops concept of command and support elements that are not present in the US accounts for Army (Program III) are listed below. See Table C-1 for an appreciation of the magnitude of the required adjustments**.

1. Recruit Training

Operating US Army Training Centers to provide both active army and reserve component recruits with basic combat, advanced individual, and common specialist training.

2. Materiel Maintenance

Providing in CONUS for the overhaul, repair, and modification of equipment, renovation of ammunition, maintenance publications, technical assistance, engineering effort to correct deficiencies in equipment in use and to design maintainability into equipment still on the drawing boards.

* Excluding expenditures for civilian personnel.
** Table C-1 follows on p. C-2.

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Table C-1

Reallocation of Expenditure Elements (TOA) from US Army (Program VII) to US Army (Program III)

1965

	Military Personnel		Procurement	O&M
	Manpower (Thousand Men)	Expenditures[a]	Expenditures[a]	Expenditures[a/b]
		(- - - - - - - - - Million Dollars - - - - - - - -)		
Recruit Training	67.8	262.2	9.2	-
Materiel Maintenance	0.6	3.2	15.2	77.9
Hospitals, Medical, and Dental Clinics	12.6	70.8	*	-
Medical Service in non-Army Facilities	*	0.1	-	14.2
Other Medical Activities	1.6	8.6	-	4.7
Command and Direction	13.0	72.2	1.7	22.0
Transients, Patients, and Prisoners	16.0	74.3	-	-
Maintenance Shops and Printing Plant	*	0.2	-	-
Total	111.7	491.5	26.0	118.8

* Less than 0.05.

a/The share of Program VII expenditures and manpower, which are for Army-wide support, allocated to Program III was estimated as being proportional to the relationship between Program III manpower and total Army manpower.

b/Excluding expenditures for civilian personnel.

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3. Hospitals, Medical Centers, and Dental Clinics

Furnishing medical and dental care to eligible personnel through the operation of hospitals, clinics, and dispensaries essential to accomplishing this mission.

4. Medical Service in Non-Army Facilities

Supplying authorized medical, dental and veterinary services in non-Army facilities.

5. Other Medical Activities

Providing diverse specialized and non-recurring medical services including: operation of central laboratory of pathology for DOD; performing services and investigations in the field of environmental hygiene to include sanitation and occupational health in support of the Army preventive medicine program; operation of regional dental activities; etc.

6. Command and Direction

Organizing, training, equipping, and maintaining Army forces at a prescribed state of readiness for ground defense of North America and other US Army commitments.

7. Transients, Patients, and Prisoners

Personnel proceeding to or from an overseas command; awaiting reassignment or separation upon return from overseas; and proceeding to, from, or between assignments to units of STRAF. Personnel transferred to a hospital for treatment or determination of duty status.

8. Maintenance Shops and Printing Plant

Depot manufacturing and maintenance is performed at six activities located at four Army depots. These activities restore equipment to combat readiness through repair and overhaul and include two quartermaster maintenance divisions, two engineer maintenance shops, a signal maintenance shop, and a railroad repair shop.

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